SWRHL-64r

# OFF-SITE SURVEILLANCE ACTIVITIES OF THE SOUTHWESTERN RADIOLOGICAL HEALTH LABORATORY
from July through December 1967

by the
Southwestern Radiological Health Laboratory

U. S. Department of Health, Education and Welfare
Public Health Service
Environmental Health Service
Environmental Control Administration
Bureau of Radiological Health

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Understanding (No. SF 54 373)
for the
U. S. ATOMIC ENERGY COMMISSION

ABSTRACT

The Southwestern Radiological Health Laboratory of the Public Health Service performed off-site radiological surveillance for twelve announced events and one reactor experiment during the period from July through December 1967. Under a Memorandum of Understanding with the Atomic Energy Commission(AEC), this surveillance was conducted in the public areas surrounding the Nevada Test Site(NTS). Off-site radiological surveillance was provided for Project Gasbuggy, an underground gas stimulation project conducted in New Mexico on December 10, 1967.

During the six-month period, one announced nuclear event, the Door Mist Event, and one experimental plan, EP-IIIA, of the NRX-A6 reactor test series released radioactivity which was detected off-site.

Analysis of all sampling and surveillance information compiled during the six-month period indicates that the safety criteria established by the Atomic Energy Commission for the off-site population were not exceeded.

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I. INTRODUCTION

During the period July through December 1967, eleven announced underground nuclear tests were conducted by the Atomic Energy Commission(AEC) at the Nevada Test Site(NTS) as a part of Operation Crosstie, and three experimental plans of the NRX-A6 reactor test series were conducted at the Nuclear Rocket Development Station(NRDS). In addition, Project Gasbuggy, the twelfth announced test, an underground gas stimulation project, was conducted in New Mexico. The Public Health Service (PHS) conducted a program of radiological environmental surveillance of the public areas off-site for the AEC Nevada Operations Office (NVOO), under a Memorandum of Understanding between the AEC and the PHS.

The Southwestern Radiological Health Laboratory(SWRHL) conducted this program of radiological monitoring and environmental sampling in the off-site areas surrounding the NTS, NRDS, and the Nellis Air Force Range(NAFR). The overall complex of the NTS and the Nellis Air Force Range includes the NRDS and the Tonopah Test Range(TTR) and for simplicity will be called the test range complex throughout this report. Although routine sampling and monitoring was done within a 300-mile radius of the test range complex, surveillance was extended to provide additional coverage as required. Accordingly, comprehensive surveillance included extensive areas surrounding the Project Gasbuggy site.

This report describes the methods and equipment used and summarizes the data collected during the six-month period.

II. OPERATIONAL PROCEDURES

A. Ground Monitoring

Before each event, mobile monitoring teams are deployed to locations in the off-site area most likely to be affected by a release of radioactive material. If a release occurs, the teams conduct a ground monitoring program directed by two-way radio and telephone communications from the NTS Control Point (CP). Ground monitoring continues until measurements indicate background levels of radioactivity and further monitoring becomes no longer feasible.

During this period, each monitor was equipped with an Eberline E-500B survey meter, a Baird-Atomic NE-148A scintillator, a Victoreen Radector Model II and a Precision Model III standard scintillator. The characteristics of these instruments are listed in Table 1 below.

Table 1. Monitoring equipment.

Instrument	Detector	Range	Number of Scales
Precision III scintillator	1- by 1-inch NaI(Tl) Crystal	0-5 mR/hr	6
Eberline E-500B	Geiger tubes	0-2 R/hr γ 0-200 mR/hr β+γ*	1 4
Victoreen radector II	Ionization chamber	0.5 mR/hr - 50 R/hr	2 log
Victoreen radector III	Ionization chamber	0.1 mR/hr - 1000 R/hr	3 log
Baird-Atomic NE-148A scintillator	1- by 1-inch NaI(Tl) Crystal	0-3 mR/hr	3 log

*Gamma only used in aerial monitoring, i.e., shield closed on external G.M. tube.

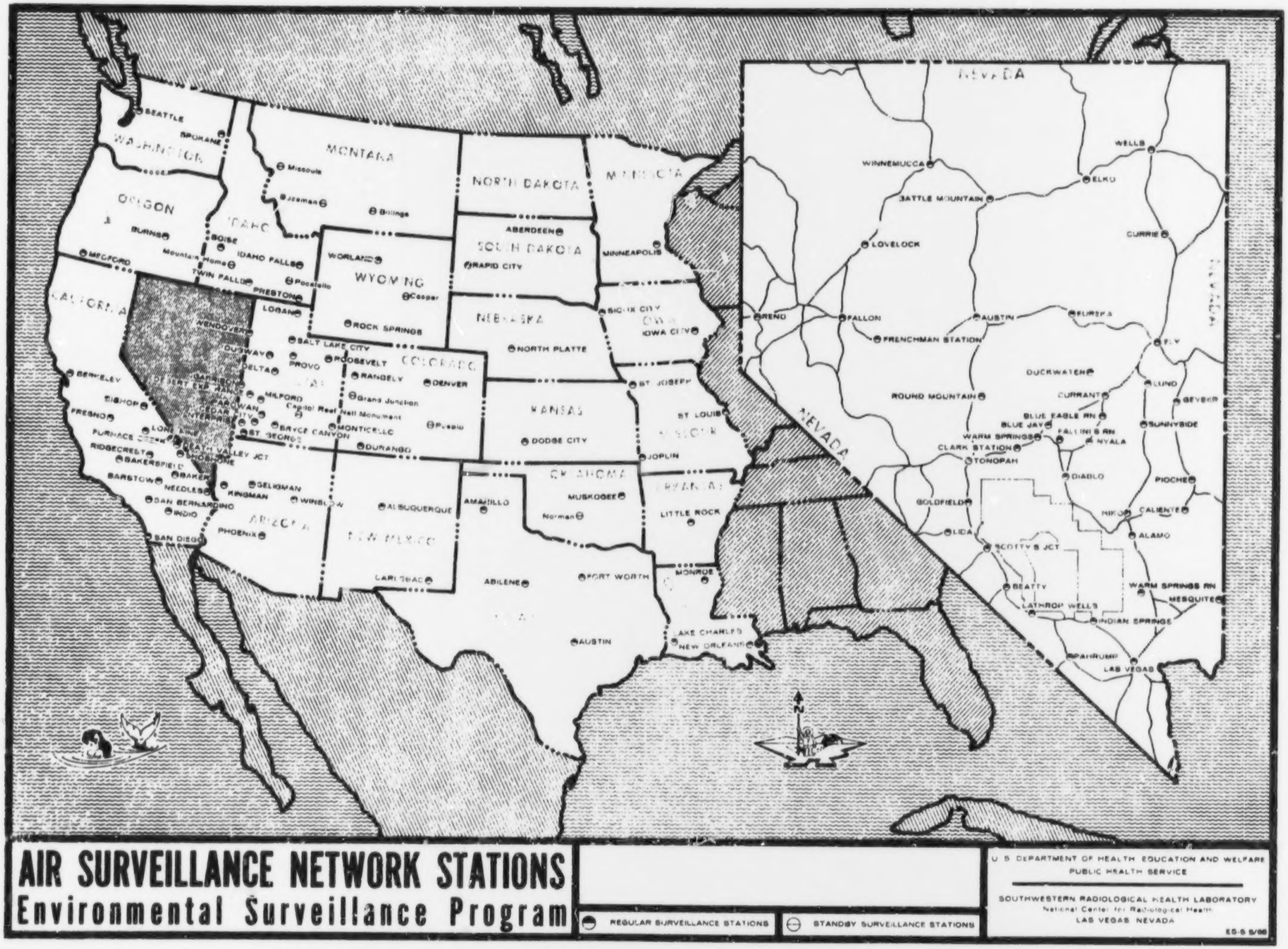
B. Exposure Rate Recorders

To supplement the ground monitoring program, Eberline RM-11 Exposure Rate Recorders were utilized at fixed locations to document cloud passage and thereby enable mobile monitoring teams to continue following the release of radioactivity as it moved through off-site areas. These recorders have a Geiger tube detector and operate on 110V AC. They have a 0.1 to 100 mR/hr range and are accurate to ±20%. Gamma exposure rate is recorded on a 30-hour strip chart.

C. Aerial Cloud Tracking and Sampling

A PHS aerial monitoring team was available for each experiment. In the event of a release of radioactivity, this team, equipped with instruments identical to those used by ground monitors, tracked the effluent. Normally an Air Force U3-A aircraft is used in this tracking mission.

Aerial cloud tracking by this team is used primarily to measure relative radiation intensities and to indicate cloud position, speed and direction. This information is utilized to position ground monitors. PHS Turbo-Beech aircraft are specially equipped to perform cloud measurements and collect a variety of samples. The data and samples are used to determine average cloud concentrations and cloud inventories of gross radioactivity and specific radionuclides. Samples are collected for analysis of particulates, reactive gas, inert gas, water, and CO_2. Samples are also collected to determine size-activity relationships of the particulate activity.


AIR SURVEILLANCE NETWORK STATIONS
Environmental Surveillance Program
● REGULAR SURVEILLANCE STATIONS
○ STANDBY SURVEILLANCE STATIONS
U S DEPARTMENT OF HEALTH EDUCATION AND WELFARE
PUBLIC HEALTH SERVICE
SOUTHWESTERN RADIOLOGICAL HEALTH LABORATORY
National Center for Radiological Health
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ES-5 5/66
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Billings
WYOMING
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Casper
ROCK SPRINGS
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ABERDEEN
RAPID CITY
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MINNEAPOLIS
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FRESNO
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RIDGECREST
BAKERSFIELD
BARSTOW
BAKER
NEEDLES
SAN BERNARDINO
INDIO
SAN DIEGO
SHOSHONE
LONE PINE
UTAH
LOGAN
WENDOVER
SALT LAKE CITY
PROVO
DUGWAY
DELTA
MILFORD
CEDAR CITY
ENTERPRISE
ST GEORGE
BRYCE CANYON
Capitol Reef Natl Monument
ROOSEVELT
MONTICELLO
COLORADO
RANGELY
Grand Junction
DENVER
Pueblo
DURANGO
ARIZONA
SELIGMAN
KINGMAN
WINSLOW
PHOENIX
NEW MEXICO
ALBUQUERQUE
CARLSBAD
KANSAS
DODGE CITY
MISSOURI
ST JOSEPH
ST LOUIS
JOPLIN
OKLAHOMA
MUSKOGEE
Norman
ARKANSAS
LITTLE ROCK
TEXAS
AMARILLO
ABILENE
FORT WORTH
AUSTIN
MONROE
LAKE CHARLES
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NEVADA
WINNEMUCCA
WELLS
ELKO
BATTLE MOUNTAIN
LOVELOCK
CURRIE
RENO
FALLON
FRENCHMAN STATION
AUSTIN
EUREKA
ELY
DUCKWATER
ROUND MOUNTAIN
CURRANT
LUND
GEYSER
BLUE EAGLE RN
BLUE JAY
SUNNYSIDE
WARM SPRINGS
FALLINI'S RN
NYALA
CLARK STATION
TONOPAH
DIABLO
PIOCHE
GOLDFIELD
NIKO
CALIENTE
LIDA
ALAMO
SCOTTY'S JCT
BEATTY
WARM SPRINGS RN
MESQUITE
LATHROP WELLS
INDIAN SPRINGS
PAHRUMP
LAS VEGAS

Figure 1

D. Air Sampling

During this six-month period, the SWRHL Air Surveillance Network (ASN) was comprised of 105 stations operating in every state west of the Mississippi River except Montana and North Dakota. The air sampler used in the ASN was a Gelman "Tempest."

The "Tempest" consists of a Gast Model 1550 vacuum pump driven by a 1/2 horsepower motor. The pump runs at 1440 rpm with an average flow rate of approximately 10 cfm. The sampler uses a 4-inch diameter Whatman 541 filter paper and a Mine Safety Appliance Company type BM 2306 charcoal cartridge. The total volume of air sampled is calculated from the total sampling time and an average of vacuum readings taken at the beginning and the end of the sampling period.

E. Milk and Water Sampling

The previously established milk sampling program from both commercial dairies and private producers continued throughout the six-month period. About 36 sources were routinely sampled during this period, generally on a monthly basis. A total of 202 samples was collected from these locations. In the event of a release of radioactive material, additional samples were collected.

Water samples were collected on a routine basis, unless circumstances dictated special sampling. During this period water samples of both potable and non-potable water supplies were collected from 90 sources.

F. Vegetation Sampling

Normally, vegetation samples were collected only in the event of a release of radioactive material. The analytical results of these samples were used to delineate the fallout pattern.

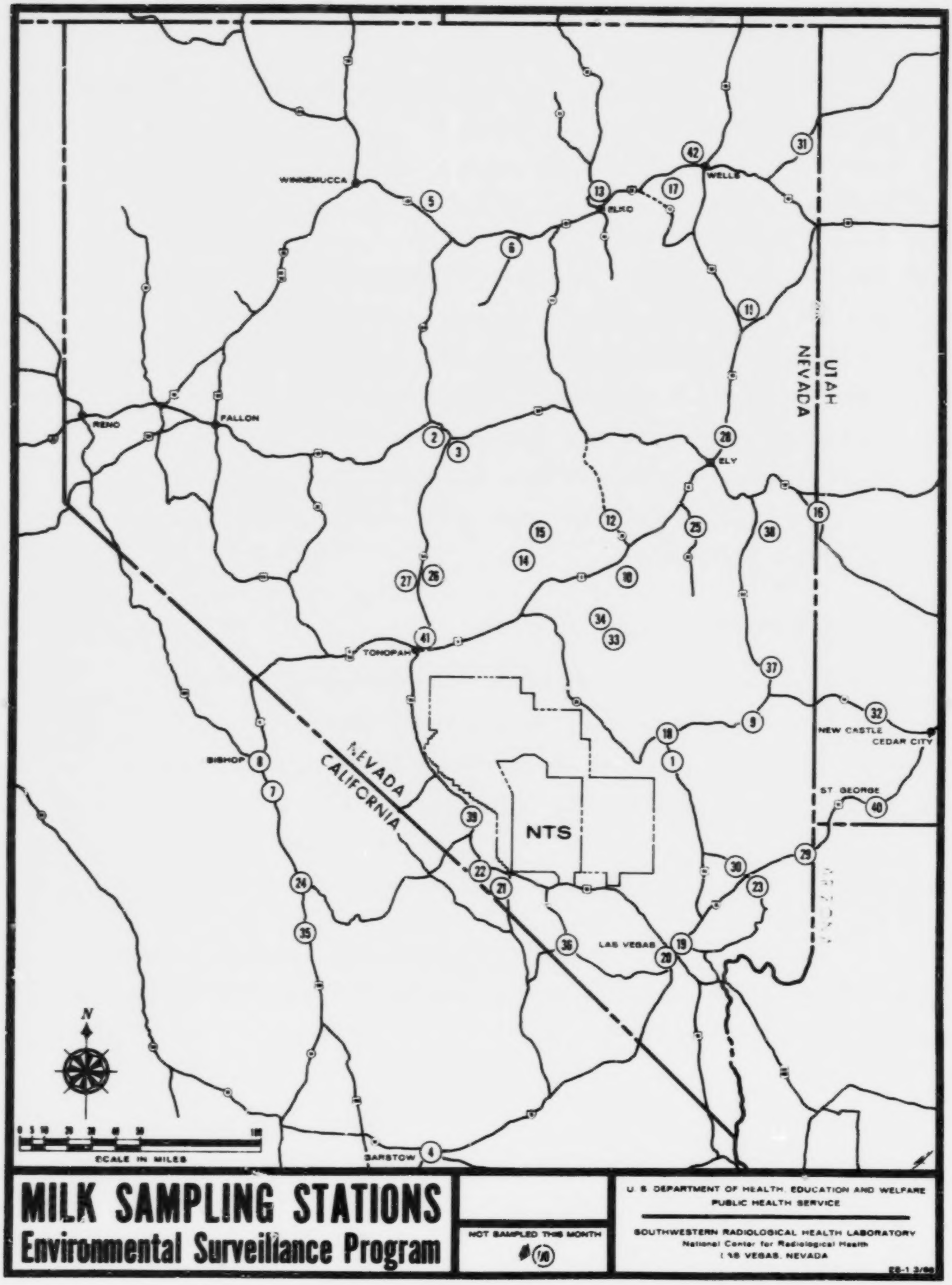
MILK SAMPLING STATIONS
Environmental Surveillance Program
NOT SAMPLED THIS MONTH
U. S. DEPARTMENT OF HEALTH, EDUCATION AND WELFARE
PUBLIC HEALTH SERVICE
SOUTHWESTERN RADIOLOGICAL HEALTH LABORATORY
National Center for Radiological Health
LAS VEGAS, NEVADA
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Figure 2

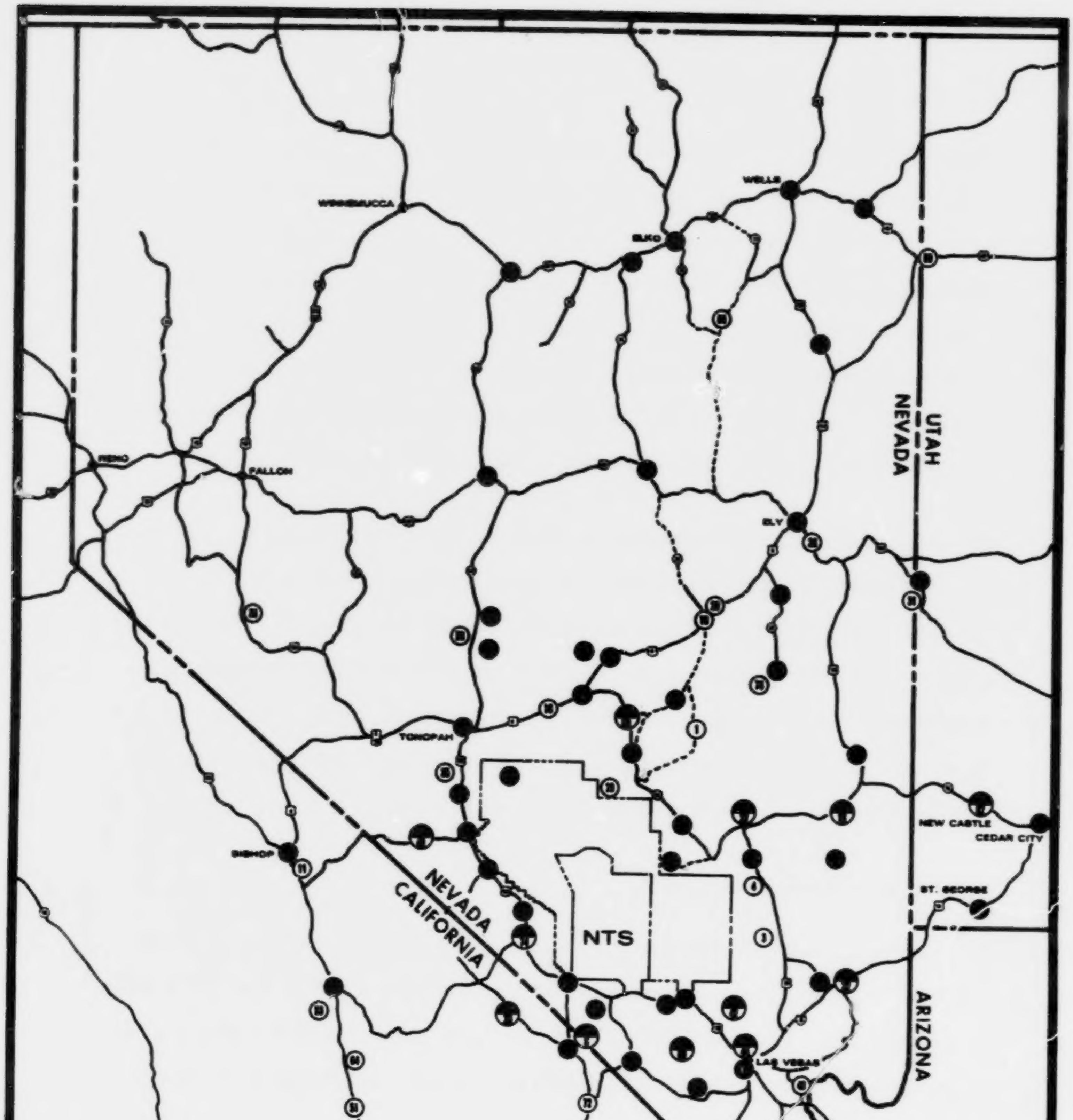
G. Dosimetry

Approximately 153 residents in the off-site area were issued film badges throughout this period. These film badges were changed each month and were processed by the Radiological Sciences Department, Reynolds Electrical and Engineering Company, Inc. Approximately 95 film badge stations, each with five badges, were located around the test range complex to provide more complete coverage. In addition, 86 stations were each equipped with three EG&G Model TL-12 thermoluminescent dosimeters (TLD's).

The film badge used is made of Du Pont type 545 film. Exposure, as determined from this film, is accurate to ± 50% in the 30 to 100 mR range and ± 10% in the 100 to 2000 mR range. The TLD's have a low energy response cutoff at 50 keV and are not energy-dependent in the range from 50 keV to several MeV. According to past TLD data, a reading of 10 mR above the previous month's background constitutes a detectable exposure.

H. Community Relations

Frequent contacts with the off-site population, schools and civic groups provided the opportunity to explain the role of the PHS with respect to the programs of the AEC. As a result of favorable community relations, a number of off-site residents took part in the environmental sampling program; all routine air sampling stations except Las Vegas were operated by local citizens, and many persons volunteered to wear film badges.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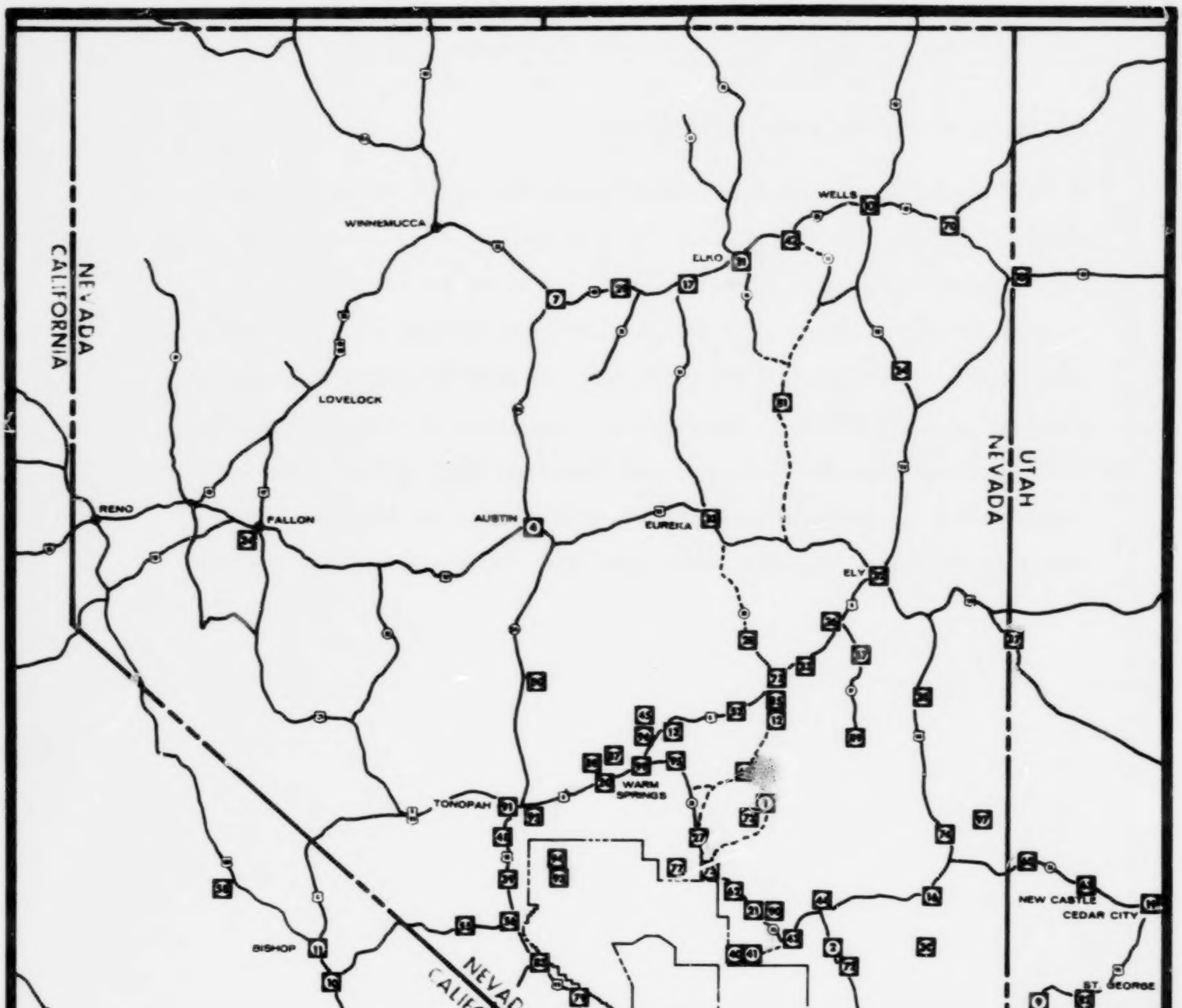
0 5 10 20 30 40 50 100
SCALE IN MILES
WATER SAMPLING STATIONS
Environmental Surveillance Program
Two stations, one open, one closed
Open source
Closed source
Not sampled this month
U. S. DEPARTMENT OF HEALTH, EDUCATION AND WELFARE
PUBLIC HEALTH SERVICE
SOUTHWESTERN RADIOLOGICAL HEALTH LABORATORY
National Center for Radiological Health
LAS VEGAS, NEVADA

Figure 3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TONOPAH
WARM SPRINGS
NEW CASTLE
CEDAR CITY
ST. GEORGE
BISHOP
NTS
LAS VEGAS
BARSTOW
SCALE IN MILES
0 5 10 20 30 40 50 100
Routine Dosimetry Stations
Five Film Badges and Three TLDs Per Station
Prepared by Dosimetry Unit-ESO
Southwestern Radiological Health Laboratory
Department of Health, Education, and Welfare

Figure 4

I. Medical and Veterinarian Services

A PHS medical officer was available in the event any cases of a medical nature arose as a result of the test series. No such cases were reported. Veterinarian services were provided through PHS veterinarians who maintained liaison with livestock producers in the area. The program of wildlife and cattle investigation was continued. Semiannual slaughter of cattle from the NTS herd and the Knoll Creek and Delamar Valley herds was accomplished in cooperation with the University of Nevada. Specimens from these animals were analyzed for radionuclide content.

III. ANALYTICAL PROCEDURES

All environmental samples collected by the PHS were returned to the SWRHL in Las Vegas for radiological analyses. The methods used in analyzing these samples are briefly described below.

Air sampler prefilters were counted for gross beta activity in a Beckman "Wide Beta" low background (6 ± 1 cpm beta) proportional system which has an efficiency of approximately 45% for 0.54 MeV betas. After an initial count, if no significant activity was detected, the prefilters were counted at 5 and 12 days after collection. In all other cases, prefilters were recounted a minimum of three times in the first 48 hours following collection. The computational procedure employed depends upon the assumption that a decay constant can be determined for each individual sample and that this constant can then be used to extrapolate the activity to the end of the collection period.

Selected prefilters and all charcoal cartridges were analyzed for gamma-emitting nuclides by placing them directly on a 4- by 4-inch NaI(Tl) crystal coupled to a Technical Measurements Corporation (TMC) Model 404C gamma pulse height analyzer viewing energies from 0 to 2 MeV.

Detection capability of the system as shown in Table 2 is an empirical estimate obtained from previous data collected under the following conditions:

a. Count time in days after fissioning as indicated by footnotes.

b. Prefilters collect unfractionated fission products resulting in a complex spectrum.

c. Mine Safety Appliances Company (MSA) charcoal collects gaseous fission products only (primarily iodines).

d. Analysis is performed using an eight-nuclide matrix. If other nuclides are present in the sample, their relative proportion is small compared to those eight.

e. Natural activity on air samples is approximately five times system background.

Table 2. Threshold detectability at time of count of several radionuclides in various samples (95% confidence level).

Sample type	pCi					Length of count	Notes
	^{131}I	^{132}Te-I	^{133}I	^{135}I	^{140}Ba-La		
Whatman	500	1000	500	1000	500	10 min.	1
No. 541	200	---	200	---	200	10 min.	2
MSA	200	400	200	400	200	10 min.	1
charcoal	100	---	100	---	100	10 min.	2

1 - counted at less than 3 days after formation.
2 - counted at 3 days or more after formation.

Although the minimum detectable levels for water samples involve the limitations listed in (d) above, the situation is usually simplified by having no background other than that of the system. For a sample containing all of the isotopes of iodine, the error term on threshold values at the 95% confidence level is approximately equal to ± 50%.

Biological discrimination will limit the number of nuclides present in a milk sample to relatively few. Under normal sampling procedures, short physical half-lives will also tend to eliminate ^{132}I and ^{135}I from the sample by the time it is counted. At the 95% confidence level reported values for milk are ± 10 pCi/l or 10% at the time of count whichever is greater for a 40-minute count.

After any release of activity from the NTS, milk samples are collected from dairies (processing plants), producing dairy farms, and farms producing milk for their own consumption. Each sample is counted for 40 minutes. No attempt is made to recount samples having low positive values. The lower limit of detection for gamma emitters in milk samples is 20 picocuries per liter (pCi/l) at the time of count, and all results below that value are reported as < 20 pCi/l.

All liquid samples are counted in 3.5-liter inverted well aluminum beakers which are placed on top of a 4- by 4-inch NaI(Tl) crystal coupled to a 400-channel gamma pulse height analyzer. Overall detection efficiency for the 0.364 MeV photopeak of ^{131}I is 6.4%. A matrix technique is employed to compute the interference due to the presence of other nuclides. The input to this matrix is variable, allowing for the simultaneous determination of any eight nuclides for which detection efficiencies and interference factors have been obtained. Actual computation is performed by an IBM 1620 computer.

After gamma analysis of milk samples was completed, certain samples were analyzed for strontium-89 and -90. After addition of strontium carrier, milk proteins are removed by ion exchange. Following several purification steps, the purified strontium is stored for at least one week to allow for ingrowth of yttrium-90. Strontium and yttrium are separated by nitric acid precipitation and both fractions are counted in a low-background beta counter.

The strontium-89 activity is the calculated difference between the total strontium activity and the strontium-90 (as yttrium-90 activity).

Water samples are analyzed for gross beta activity by slowly evaporating an aliquot to dryness in a two-inch diameter stainless steel planchet and counting the beta activity in a low-background counter.

IV. RESULTS

A. Underground Tests

Of the underground nuclear tests at the NTS during this period, only one resulted in a release of radioactive effluent which was detected in off-site populated areas. This was the Door Mist Event. Environmental surveillance data for Project Gasbuggy, a plowshare experiment conducted in New Mexico, are reported separately.(1, 2)

1. Door Mist

The Door Mist Event was conducted at the NTS on August 31, 1967, at 0930 hours PDT. An effluent release occurred shortly after detonation and some seepage continued for several hours.

Radioactive debris drifted in a north-northwesterly direction from the NTS. Aerial surveillance tracked the effluent as far as the north end of Long Valley, 190 miles at 14° from ground zero, at 1240 hours on September 1 (H+27 hours). The only nuclide collected on D+1 was ^{135}Xe. Analyses of the samples collected on the five monitoring flights indicated that the radioactivity was released as a gas. The only particulate activity collected was ^{88}Rb, the daughter product of ^{88}Kr.

Ground monitoring readings at Clark Station, Nevada, showed a slight rise in background, and at Diablo, Nevada, a gamma exposure rate recorder measured about 0.01 mR/hr above background and the air sampler filter showed small amounts of iodine-133 and iodine-135.

Due to the low exposure rates observed in the off-site area after the Door Mist Event, not any of the 678 film badges or the 258 TLD's was collected immediately after the experiment. Film badges and TLD's collected since the test date have shown no exposures that could be attributed to the Door Mist Event.

None of the five milk samples or the 43 vegetation samples collected from off-site locations and analyzed following this event showed the presence of fresh fission products. No special water samples were collected.

Table 3. Vegetation sampling locations - Door Mist Event

Nevada	Date Collected
Highway 6, Tonopah to Warm Springs Every 5 miles	9/1/67
Highway 25, Warm Springs to Coyote Summit Every 5 miles	9/1/67
Highway 25 and 93, Coyote Summit to Alamo Every 10 miles	9/1/67
Clark Station(Stickler Ranch)	9/1/67
Goldfield, Lida Junction, and Beatty	9/1/67
Scotty's Junction, Tonopah, and Springdale	9/1/67
Lund	9/2/67

Table 4. Air sampling results - Door Mist Event.

Location	Sampling Period	Gross Beta Activity Prefilter at end of Collection (pCi/m^3)	Collector*	Isotopic Results Activity (pCi/m^3) at end of collection
Beatty, Nevada	8/30 - 1943 8/31 - 1838	.03	pf & cc	ND**
	8/31 - 1839 9/01 - 1911	.03	pf & cc	ND
Clark Station, Nevada	8/31 - 1345 9/01 - 0915	.04	pf & cc	ND
Diablo, Nevada	8/31 - 0630 9/01 - 0645	.08	pf	ND
	8/31 - 0630 9/01 - 0645		cc	2.0 for ^{133}I and ^{135}I
Goldfield, Nevada	8/31 - 0800 9/01 - 0800	.03	pf & cc	ND
Lathrop Wells, Nevada	8/31 - 0630 9/01 - 1655	.04	pf & cc	ND
Nyala, Nevada	8/31 - 0700 9/01 - 0700	.05	pf & cc	ND
Scotty's Junction, Nevada	8/31 - 1730 9/01 - 1215	.01	pf & cc	ND
Tonopah, Nevada	8/31 - 1330 9/01 - 0950	.03	pf & cc	ND

**ND - not detected

*pf - prefilter

cc - charcoal cartridge

Table 4. Air sampling results - Door Mist Event. (continued)

Location	Sampling Period	Gross Beta Activity Prefilter at end of Collection (pCi/m^3)	Collector*	Isotopic Results
				Activity (pCi/m^3) at end of collection
Fallini's Ranch - Warm Springs, Nevada	8/31 - 1700 9/01 - 1030	.03	pf	ND
"	8/31 - 0900 8/31 - 1700		cc	ND
" "	8/31 - 1700 9/01 - 1030		cc	ND
Warm Springs, Nevada	8/31 - 1000 9/01 - 1000	.02	pf & cc	ND

*pf - prefilter
cc - charcoal cartridge
ND - not detected

2. Project Gasbuggy

Project Gasbuggy, conducted in Rio Arriba County, New Mexico, December 10, 1967, at 1230 MST, was a gas-stimulation experiment.

Off-site radiological safety operations for the project were initiated in June 1967, including a three-month census of all people and milk cows within 100 miles of the detonation site and the charting of all mining and tunneling operations within 50 miles. Printed information, explaining the nature of the experiment, was distributed simultaneously, and other public informational services were provided.

The collection of environmental samples to establish background levels of radioactivity began in early August with the collection of water samples. Vegetation samples for background information were collected in early December. A 35-station air surveillance network began operating on November 21 through December 13; twelve stations operated through the drill-back period. Milk and water samples were collected following the shot and the drill-back period. A network of TLD's was established within an approximate eight-mile radius.

The period of major monitoring activity began in early December and lasted until mid-January 1968. Approximately thirty people from the SWRHL and the health departments of New Mexico and Colorado were assigned to the project.

No release of radioactivity was detected by off-site monitoring or in the analysis of samples collected following detonation and prior to commencement of the re-entry program.

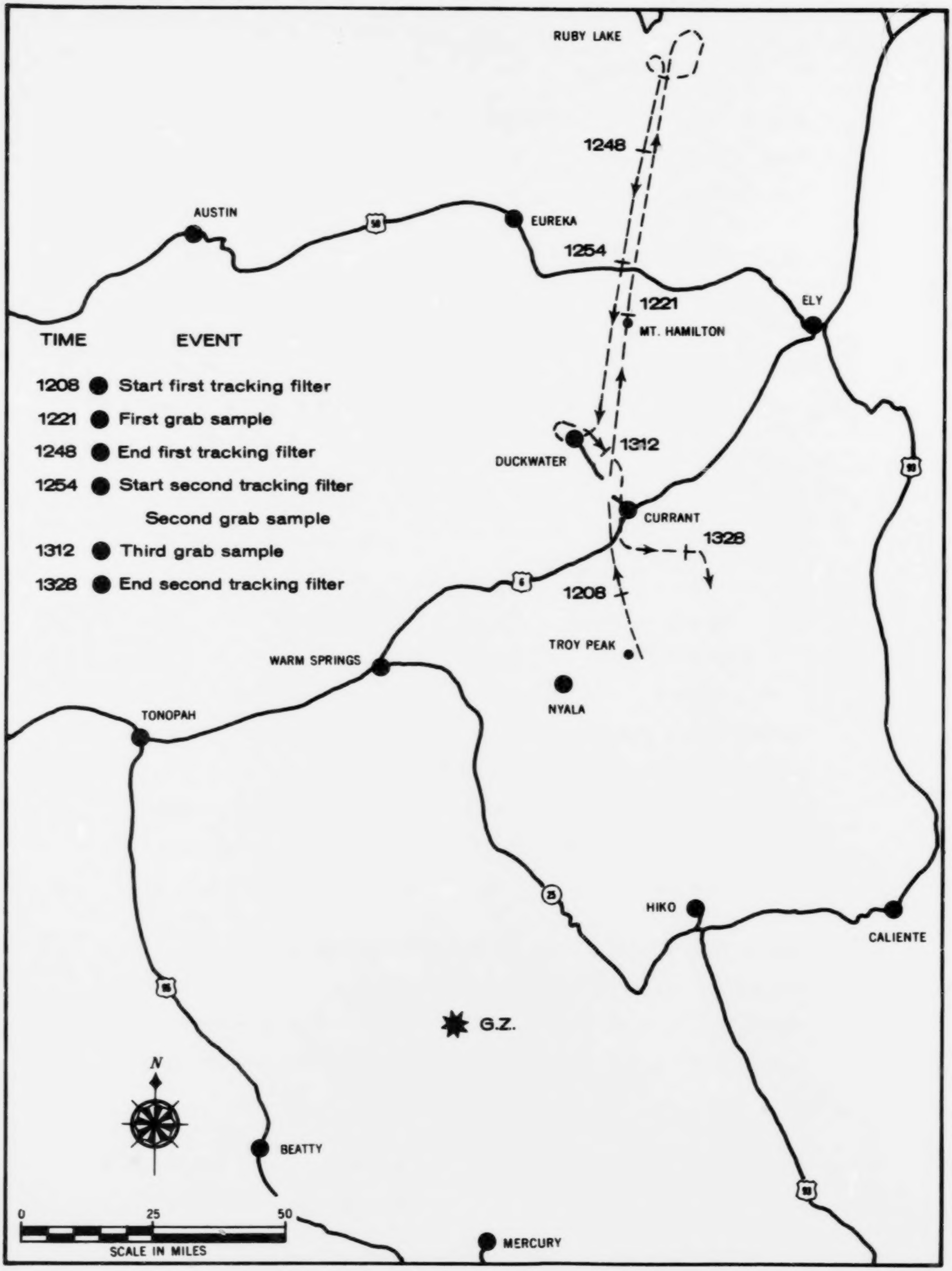

Figure 5. Door Mist cloud tracking.

B. Reactor Experiments

During this period the NRX-A6 reactor test series, consisting of two calibration operations and a full power run, were conducted at Test Cell C, NRDS. When EP-III was cancelled after repeated postponements due to incompatible weather conditions, the full power run was designated EP-IIIA and, as shown in Table 5, the test resulted in a release of effluent to the off-site area.

Table 5. NRX-A6 test series schedule.

Experiment	Date - 1967	Approximate Power Integral Mw-sec	Radiation Detectable Off-Site
EP-I	Nov 21	less than 7	No
EP-II	Dec 6	21	No
EP-IIIA	Dec 15(1100-12 PST)	4.4×10^6	Yes

1. Experimental Plan-IIIA, December 15, 1967

Radioactive material released by EP-IIIA was transported by prevailing winds an approximate 200 miles along an azimuth of 235° southwest of Test Cell C. Residents within 25 miles of the test site and between azimuths of 210° and 250° remained undercover, as advised, until one hour after the test.

Radiation survey instrument readings from the U3-A aircraft and cloud measurements obtained by a PHS Turbo-Beech aircraft tracked the cloud from Test Cell C as far as Death Valley, an approximate forty miles, as shown in Figure 7. A sampling pattern was established at 10,000 feet mean sea

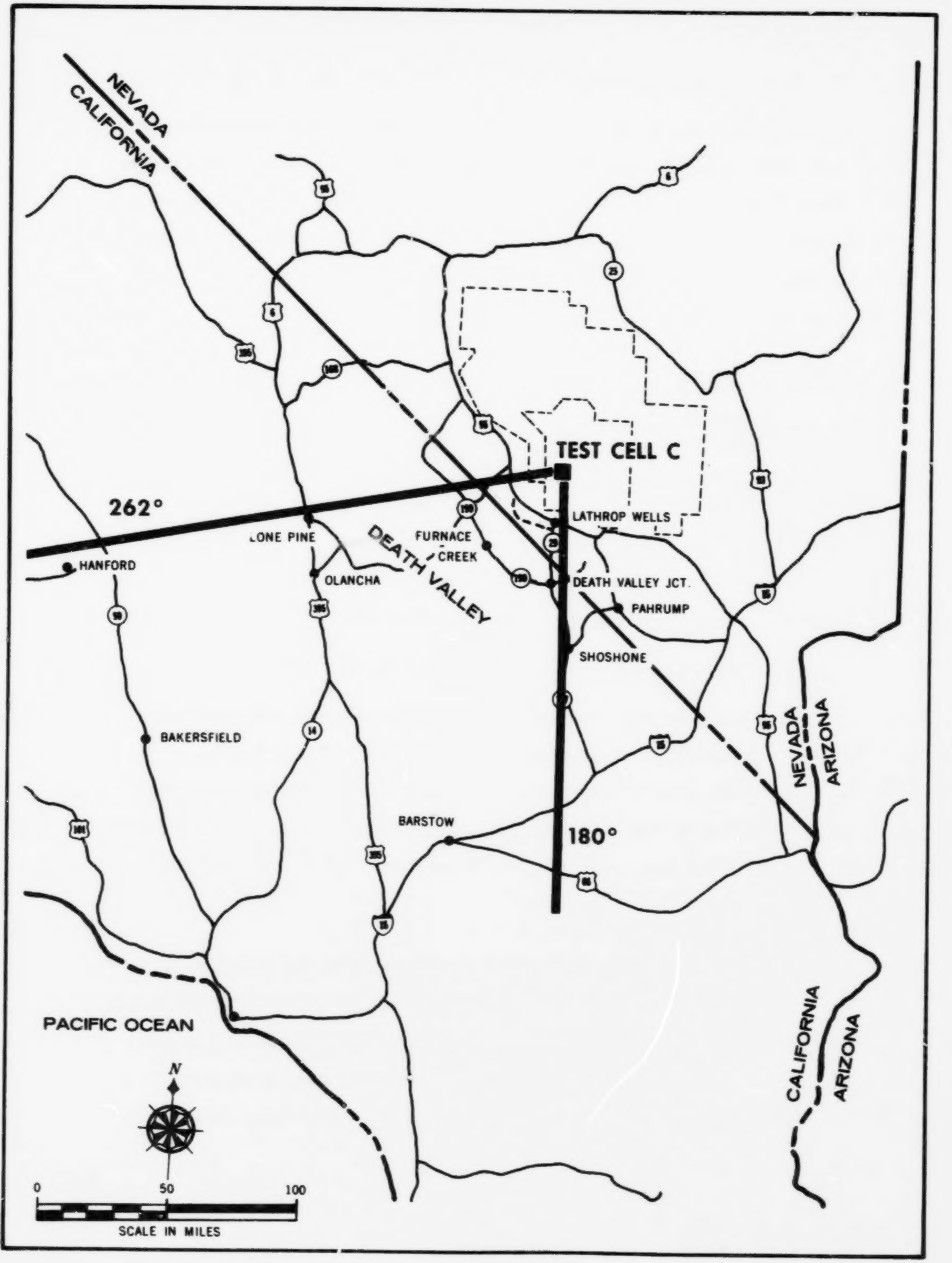

Figure 6. Area affected by EP-IIIA effluent.

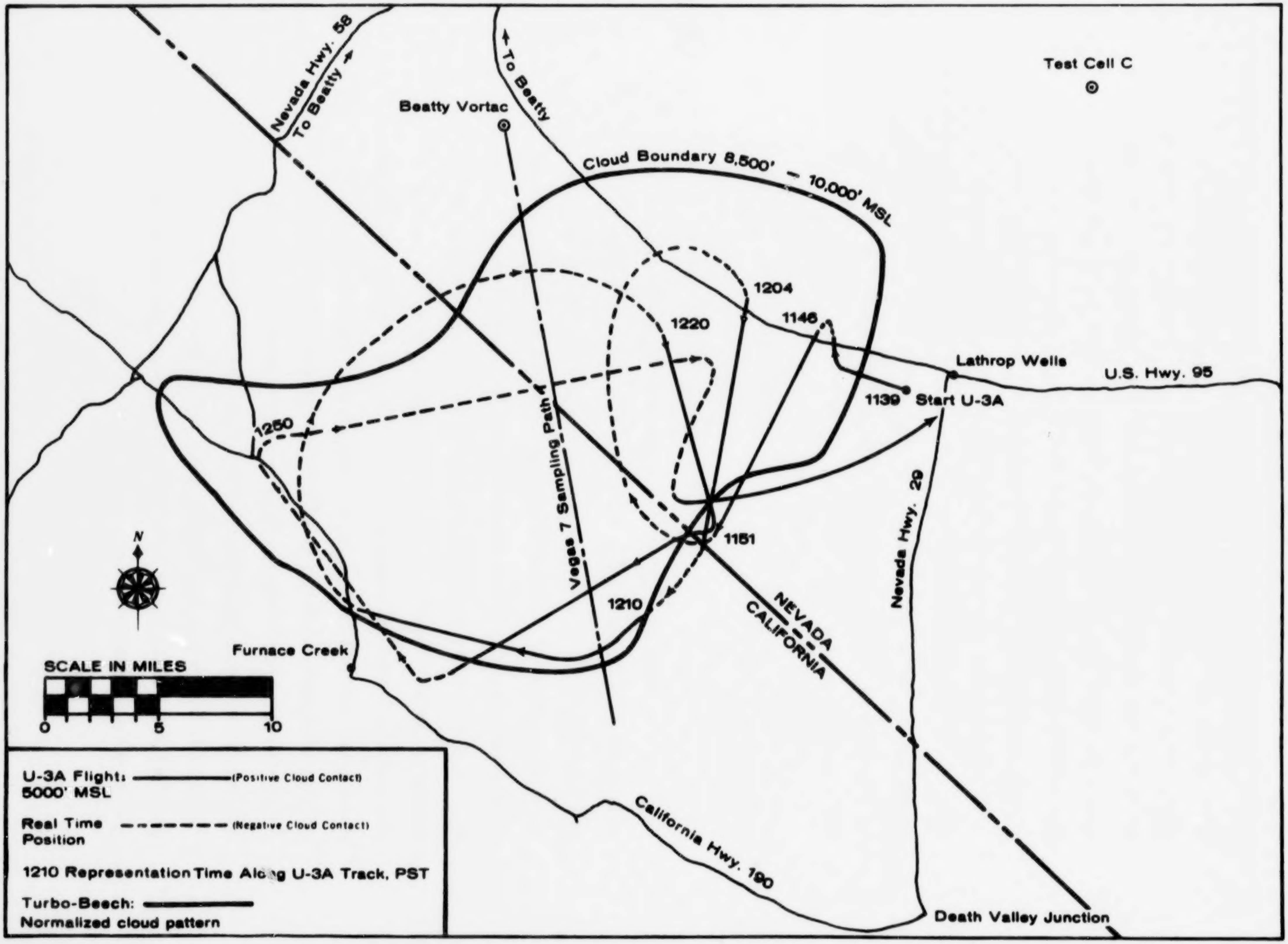

Figure 7. Cloud tracking and sampling, NRX-A6 EP-IIIA.

level (MSL) along an azimuth of 170° from Beatty VOR (very high frequency omni-directional range). A peak off-site reading of 18 mR/hr was obtained at 8500 feet about 28 miles from the test site. (Table 6). The gross beta analysis of the filter from the mass air sampler, as listed in Table 7, showed an average gross beta particulate concentration of 2.4×10^5 pCi/m^3 at 1230 hours and a particulate inventory of 5×10^5 Ci. This gross beta activity decayed at a rate of $T^{-1.3}$. Grab samples of air collected on several passes showed no radionuclides of inert gases and analysis for tritium and carbon-14 showed only background levels.

Particles reading greater than 200 mR/hr beta-gamma on portable GM survey instruments were found in a maximum deposition density of 0.2 particles/m^2 by ground monitors between azimuths 204° and 231° true to just beyond Highway 190; none were found along the highway west and northwest of Shoshone. All levels of external radiation and of radioactivity measured in environmental samples collected downwind from Test Cell C were relatively low, the highest being 0.3, 0.8 and 1.5 mR/hr above background recorded respectively at Lathrop Wells, at points along Highway 95, and at residences in the Amargosa Valley. Of the 79 water samples, none taken from water used for human consumption showed detectable amounts of fresh fission products. (See Table 8). Thermoluminescent dosimeters indicated that aircraft personnel received maximum exposures of 4.6 mR due to gamma radiation; however, no TLD or film badge worn by ground personnel or distributed along the routine dosimetry network indicated exposures above background.

Table 6. Peak readings observed aboard Vegas 7 NRX-A6 EP-IIIA

Time	Location		Altitude	Exposure Rate
	Azimuth	Distance (mi.)	(Ft MSL)	(mR/hr)
1123	230°	6.9	6,000	20
1132	230°	9.0	7,000	10
1153	254°	25.8	10,000	0.8
1201	244°	26.9	10,000	3.0
1207	250°	26.1	10,000	3.5
1218	244°	26.0	10,000	8.5
1230	242°	27.1	8,500	18
1242	242°	27.1	8,500	10
1253	238°	27.7	8,500	4
1307	232°	28.9	8,500	0.5

Table 7. Mass Air Sampler summary of radionuclide inventory December 15, 1967 NRX-A6 EP-IIIA.

Nuclide	Concentration (pCi/m^3)*			Total Ci*	Total Ci***
	Filter	Charcoal	% Release**	H + 1 Hr.	H + 12 Hrs.
^{91}Sr	2,800		0.13	5,800	2,600
^{92}Sr	7,000		0.1	15,000	800
^{103}Ru	10		0.16	20	20
^{132}Te	1,800		0.89	3,800	3,400
^{133m}Te	170,000		1.7	360,000	40
^{131}I	350	40	0.61	820	790
^{133}I	5,200	630	0.49	12,000	8,300
^{134}I	71,000	6,900	0.51	160,000	30
^{135}I	2,700	1,700	0.13	9,200	3,000
^{139}Ba	13,000		0.1	27,000	120
^{140}Ba	40		0.05	80	80
^{141}Ce	30		0.1	60	60
^{147}Nd	30		0.02	60	60
Gross β	240,000			500,000	22,000

*H + 1 Hour (1230 Hours) Midtime of sampling.

**Percent of isotope formed which was in the cloud at H + 1 Hour.

***H + 12 Hours (2330 Hours) Extrapolated from H + 1 Hour.

Table 8. Water samples with fresh fission products, NRX-A6, EP-IIIA.
(Units pCi/l)

Location	Date	Source	Gross Beta	Radionuclide concentration				
				^{133}I	^{132}Te	^{131}I	^{89}Sr	^{90}Sr
Lathrop Wells, Nevada Nickell Ranch	12/16	Stock tank	100	ND	ND	200	< 5	< 2
Lathrop Wells, Nevada Rooker Ranch	12/16	Stock tank	28	ND	ND	210	< 5	< 2
Barstow, California	12/16	Rain pool	200	880	180	2500	no chemistry	

ND - not detected

The highest concentration of iodine-131 in air was 0.4 pCi sec/m^3 integrated exposure, which is the combined value of iodine-131 from both the charcoal cartridge and the particulate filter measured at Death Valley Junction. (See Table 9.)

Of the 106 milk samples collected from 21 separate locations, 21 contained radioactivity. Maximum concentrations were 90 pCi/l of iodine-131 and 390 pCi/l of iodine-133 found in samples taken near Lathrop Wells. The highest concentration of iodine-131 in milk collected in California was 20 pCi/l collected near Olancha. (See Table 10.)

Three of the seven portable stations of the Data Acquisition and Telemetry System developed by the SWRHL were used

Table 9. Air Results (Units $\frac{pCi/m^3}{\mu Ci\text{-}sec/m^3}$) NRX-A6 EP-IIIA

Location	Date Time On	Date Time Off	Run Time Hrs.(1)	Col- lector	Gross Beta Conc.	Radio- nuclide Conc. ^{131}I
Death Valley Jct., California 191° 38 miles	0630 12/15	0730 12/16	25	PF	$\frac{8.3}{0.75}$	$\frac{1.9}{0.17}$
				CC		$\frac{2.2}{0.20}$
Furnace Creek, California 233° 38 miles	1430 12/15	1230 12/16	22	PF	$\frac{1.8}{0.14}$	$\frac{0.7}{0.055}$
				CC		$\frac{1.5}{0.12}$
Hords Ranch, Amargosa Farm Area, Lathrop Wells, Nev. 222° 23 miles	1115 12/15	1610 12/15	4.9	PF	$\frac{460}{8.1}$	$\frac{9.0}{0.16}$
				CC		$\frac{ND}{ND}$
Jct. Hwys 395 & 14 near Inyokern, Cal. 229° 120 miles	1615 12/15	1435 12/16	22.3	PF	$\frac{2.6}{0.21}$	$\frac{0.8}{0.064}$
				CC		$\frac{1.3}{0.10}$
Nickell Ranch, Amargosa Farm Area, Lathrop Wells, Nevada 222° 23 miles	1115 12/15	1600 12/15	4.8	PF	$\frac{300}{5.2}$	$\frac{7.2}{0.12}$
				CC		$\frac{ND}{ND}$
7.5 miles W Lathrop Wells, Nevada Highway 95 233° 17 miles	1155 12/15	1620 12/15	4.5	PF	$\frac{57}{0.92}$	$\frac{4.2}{0.068}$
				CC		$\frac{ND}{ND}$

(1) - Running time is taken from a running time meter and may vary slightly from time difference between recorded on and off times.

PF - Particulate Filter

CC - Charcoal Cartridge

ND - Not detected

for the NRX-A6 test series. Trailer-housed electronic telemetry equipment, an air sampling loop, two ionization chambers, and sensors detected and transmitted early data on movement of radioactive effluent and on meteorological conditions.

C. Six-Month Summary

The source of all radioactivity measured off-site during this period was predominantly the NRX-A6, EP-IIIA.

Results of off-site surveillance activities, including listings of the highest concentrations of gross beta radioactivity and iodine-131 are summarized in the following tables. Though gross beta activity in the air has little value in determining radiation exposures to persons, indications of airborne radioactivity present in a specific area aid in determining the areas where milk, water, and vegetation samples should be collected. As shown, gross beta results on air filters collected following weapons tests during this period did not exceed 1 pCi/m^3.

Complete milk results for this six-month period are listed in the Appendix.

Table 10. The six highest concentrations of ^{131}I in milk, NRX-A6, EP-IIIA. (Units pCi/l)

Location	Date milked	Peak radionuclide concentration ^{131}I	^{133}I	^{89}Sr	^{90}Sr
Lathrop Wells, Nevada Dansby's Ranch	12/16	90	400	< 5	2
Lathrop Wells, Nevada Rooker Ranch	12/18	90	70	< 5	3
Lathrop Wells, Nevada Hords Ranch	12/18	80	50	< 5	0
Lathrop Wells, Nevada Dansby's Ranch	12/18	70	30	6	< 1
Lathrop Wells, Nevada Rooker Ranch	12/19	70	20	< 5	3
Lathrop Wells, Nevada Rooker Ranch	12/21	70	ND	< 5	2

Table 11. Highest twelve readings of radiation survey instruments - NRX-A6, EP-IIIA.

Location	Azimuth & Distance from Test Cell C		Time period monitored	Cloud arrival time	GM survey meter readings: Max. Net gamma		Gamma exposure (mR)
	Degree	Miles	hours		(mR/hr)	(Time)	
8.1 mi W Lathrop Wells, Highway 95	235	18.0	1200-1555	1210	0.8	1234	2.0
16.5 mi W Lathrop Wells, Hwy 95 to Lathrop Wells	---	----	1150-1252	----	0.8^{I}	1234	---
Dansby Ranch Lathrop Wells, Nev.	221	23.5	1110-1510	1240	1.1	1253	0.71
Selbach/Strickland Ranch, Lathrop Wells, Nevada	222	24.0	1055-1240	1240	1.0	1257	1.3
Hord Ranch, Lathrop Wells, Nevada	223	23.5	1125-1600	1240	0.9	1252	0.82
Rich(Davis) Ranch Lathrop Wells, Nev.	214	23.5	1135-1350	1200	0.9	1255	0.32
Nickell Ranch Lathrop Wells, Nev.	222	23.5	1100-1545	1230	1.0	1251	0.59
Corder Ranch Lathrop Wells, Nev.	223	23.5	1115-1420	1240	1.5	1251	1.1
Oswald Ranch Lathrop Wells, Nev.	223	24.0	1130-1510	1235	1.0	1252	0.95
Allison Ranch Lathrop Wells, Nev.	222	24.0	1130-1515	1230	1.0	1252	0.64
Nicholl residence Lathrop Wells, Nev.	220	23.0	1000-1500	1240	0.8	1251	0.76
Schultz Farm Lathrop Wells, Nev.	227	23.5	1115-1500	1230	0.8	1254-1258	1.1

I-reading at 3.9 mi W Lathrop Wells.

V. CONCLUSIONS

Results obtained through environmental radiation surveillance during this period indicate that no individual in the off-site area received an exposure, resulting from Nevada Test Site or NRDS operations, which exceeded the radiological safety criteria established by the AEC.

VI. REFERENCES

1. Report of Off-Site Surveillance for Project Gasbuggy, March 1967 to June 1968, SWRHL-99r.

2. Environmental Surveillance for Project Gasbuggy, Production Test Phase, SWRHL-100r.

APPENDIX

Milk sample results for the six-month period.

Note:

The first line of each sample listing gives the location of the sample source, the identification number assigned to the sample when it arrives at the laboratory, and the date the sample was collected. The remaining lines show the nuclides present in the sample in units of picocuries per liter, except for calcium and potassium which are given in units of grams per liter.

Routinely, analysis is made for the following eight nuclides: ^{144}Ce, ^{131}I, ^{106}Ru, ^{137}Cs, ^{95}Zr, ^{54}Mn, ^{40}K, and ^{140}Ba. These nuclides are listed only when they are present in detectable quantities. When samples are collected for particular events, analysis is generally done for ^{133}I in place of ^{106}Ru.

The nuclides which are processed by radiochemistry methods--Ca, ^{89}Sr, ^{90}Sr--are listed if radiochemistry is performed, even if they are not detectable. If ^{89}Sr is not detectable, it is listed as "B," which signifies < 5 pCi/l. If ^{90}Sr is not detectable, it is listed as "D," which signifies < 0.1 pCi/l.

Some of the values are listed in exponential form:

$3.0E01 = 3.0 \times 10^1 = 30$; $5.5E02 = 5.5 \times 10^2 = 550$, etc.

APPENDIX

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CALIFORNIA MILK - JULY 1967-DEC 1967                          COLLECTED

BAKERSFIELD CALIFORNIA CHALLENGE CRMRYPM 56024002904912025384 07 01 67 0002341
   131I=ND             137CS=ND            K=1.56E00           NO
   CHEM

BAKERSFIELD CALIFORNIA CHALLENGE CRMRYPM 56024002904912025381 07 02 67 0002341
   131I=ND             137CS=8.0E00        K=1.51E00           NO
   CHEM

BAKERSFIELD CALIFORNIA CHALLENGE CRMRYPM 56024002904912025376 07 03 67 0002341
   131I=ND             137CS=ND            K=1.54E00           NO
   CHEM

BAKERSFIELD CALIF CHALLENGE CREAMERY  PM 56024002904912025402 07 04 67 0002341
   131I=ND             137CS=1.2E01        K=1.48E00           NO
   CHEM

BAKERSFIELD CALIF CHALLENGE CREAMERY  PM 56024002904912025400 07 05 67 0002341
   131I=ND             137CS=ND            K=1.47E00           NO
   CHEM

BAKERSFIELD CALIFORNIA CHALLENGE C+B  AM 53024002904912039675 12 18 67     341
   131I=ND             133I=ND             137CS=ND            K=1.57E00
   89SR=0              90SR=1.1

BAKERSFIELD CALIFORNIA CHALLENGE C+B  AM 53024002904912039634 12 19 67     341
   131I=ND             133I=ND             137CS=ND            K=1.41E00
   89SR=0              90SR=1.7

BAKERSFIELD CALIFORNIA CHALLENGE C+B  AM 53024002904912039630 12 20 67     341
   131I=ND             133I=ND             137CS=ND            K=1.31E00
   89SR=0              90SR=4.5

NOTE--MILK,WATER,RADON UNITS ARE PCI/L,EXCEPT K=GM/L,
      FOOD AND FEED UNITS ARE PCI/KGM,EXCEPT K=GM/KGM,
      SURVEILLANCE AIR RESULTS ARE PCI/M3,
      SOIL RESULTS ARE PCI/GM,
      LT(X) DENOTES A RESULT LESS THAN X.
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CALIFORNIA MILK - JULY 1967-DEC 1967                                    COLLECTED

BAKERSFIELD CALIFORNIA CHALLENGE C+B  PM 53024002904912039673 12 21 67       341
   131I=ND            133I=ND             137CS=ND              K=1.55E00
   ND                 CHEM

BAKERSFIELD CALIFORNIA CHALLENGE C+B  AM 53024002904912039669 12 22 67       341
   131I=ND            133I=ND             137CS=ND              K=1.25E00
   ND                 CHEM

BAKERSFIELD CALIFORNIA CHALLENGE C+B  PM 53024002904912039670 12 23 67       341
   131I=ND            133I=ND             137CS=ND              K=1.46E00
   ND                 CHEM

BAKERSFIELD CALIFORNIA CHALLENGE C+B  PM 53024002904912039725 12 25 67       341
   131I=ND            133I=ND             137CS=ND              K=1.44E00
   ND                 CHEM

HINKLEY CALIFORNIA BILL NELSON DAIRY  PM 53027002904912039164 12 16 67 6992004
   131I=ND            133I=8.4E01         137CS=ND              K=1.36E00
   89SR=0             90SR=0.5

HINKLEY CALIFORNIA BILL NELSON DAIRY  AM 53027002904912039217 12 17 67 6992004
   131I=2.1E01        133I=4.6E01         137CS=ND              K=1.35E00
   89SR=0             90SR=2.1

HINKLEY CALIFORNIA BILL NELSON DAIRY  PM 53027002904912039323 12 18 67 6992004
   131I=ND            133I=ND             137CS=ND              K=1.53E00
   89SR=7             90SR=0.0

HINKLEY CALIFORNIA BILL NELSON DAIRY  AM 53027002904912039369 12 19 67 6992004
   131I=ND            133I=ND             137CS=ND              K=1.33E00
   89SR=0             90SR=1.3

NOTE--MILK,WATER,RADON UNITS ARE PCI/L,EXCEPT K=GM/L,
      FOOD AND FEED UNITS ARE PCI/KGM,EXCEPT K=GM/KGM,
      SURVEILLANCE AIR RESULTS ARE PCI/M3,
      SOIL RESULTS ARE PCI/GM,
      LT(X) DENOTES A RESULT LESS THAN X.
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CALIFORNIA MILK - JULY 1967-DEC 1967                                     COLLECTED

BARSTOW CALIFORNIA HILLS DAIRY        AM 56027002904912025366 07 01 67 0002006
   131I=ND              137CS=ND         K=1.49E00            NO
   CHEM

BARSTOW CALIFORNIA HILLS DAIRY        PM 56027002904912025373 07 02 67 0002006
   131I=ND              137CS=ND         K=1.56E00            NO
   CHEM

BARSTOW CALIFORNIA HILLS DAIRY           56027002904912025383 07 03 67 0002006
   131I=ND              137CS=ND         K=1.44E00            NO
   CHEM

BARSTOW CALIFORNIA HILLS DAIRY           56027002904912025387 07 05 67 0002006
   131I=ND              137CS=ND         K=1.51E00            NO
   CHEM

BARSTOW CALIFORNIA HILLS DAIRY           56027002904912025443 07 06 67 0002006
   131I=ND              137CS=ND         K=1.59E00            NO
   CHEM

BARSTOW CALIFORNIA HILLS DAIRY           56027002904912025447 07 07 67 0002006
   131I=ND              137CS=ND         K=1.52E00            NO
   CHEM

BARSTOW CALIFORNIA HILLS DAIRY        AM 51027002904912025468 07 10 67 8390006
   131I=ND              137CS=ND         K=1.44E00            89SR=3
   90SR=0.0

BARSTOW CALIFORNIA HILLS DAIRY        AM 51027002904912025538 08 01 67 8390006
   131I=ND              137CS=ND         K=1.35E00            89SR=0
   90SR=1.8

NOTE--MILK,WATER,RADON UNITS ARE PCI/L,EXCEPT K=GM/L,
      FOOD AND FEED UNITS ARE PCI/KGM,EXCEPT K=GM/KGM,
      SURVEILLANCE AIR RESULTS ARE PCI/M3,
      SOIL RESULTS ARE PCI/GM,
      LT(X) DENOTES A RESULT LESS THAN X.
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CALIFORNIA MILK - JULY 1967-DEC 1967                                 COLLECTED

BARSTOW CALIFORNIA HILLS DAIRY         AM 51027002904912025880 09 11 67 8390006
   131I=ND             137CS=ND           K=1.40E00            89SR=0
   90SR=0.8

BARSTOW CALIFORNIA HILLS DAIRY         AM 51027002904912034386 10 02 67 8390006
   131I=ND             137CS=ND           K=1.40E00            89SR=2
   90SR=0.0

BARSTOW CALIFORNIA HILLS DAIRY         AM 51027007104913037378 11 01 67 8390006
   131I=ND             137CS=ND           K=1.53E00            89SR=1
   90SR=0.5

BARSTOW CALIFORNIA HILLS DAIRY         AM 53027002904911039165 12 16 67 8392006
   133I=ND             131I=ND            137CS=ND             K=1.27E00
   89SR=0              90SR=2.1

BARSTOW CALIFORNIA HILLS DAIRY         AM 53027002904911039214 12 17 67 8392006
   131I=ND             133I=ND            137CS=ND             K=1.21E00
   89SR=1              90SR=0.5

BARSTOW CALIFORNIA HILLS DAIRY         PM 53027002904911039322 12 18 67 8392006
   131I=ND             133I=ND            137CS=ND             K=1.31E00
   89SR=0              90SR=4.3

BARSTOW CALIFORNIA HILLS DAIRY         AM 53027002904911039368 12 19 67 8392006
   131I=ND             133I=ND            137CS=ND             K=1.45E00
   89SR=0              90SR=0.5

BARSTOW CALIFORNIA HILLS DAIRY         AM 53027002904912039559 12 19 67      344
   131I=ND             133I=ND            137CS=ND             K=1.67E00
   ND                  CHEM

NOTE--MILK,WATER,RADON UNITS ARE PCI/L,EXCEPT K=GM/L,
      FOOD AND FEED UNITS ARE PCI/KGM,EXCEPT K=GM/KGM,
      SURVEILLANCE AIR RESULTS ARE PCI/M3,
      SOIL RESULTS ARE PCI/GM,
      LT(X) DENOTES A RESULT LESS THAN X.
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CALIFORNIA MILK - JULY 1967-DEC 1967                       COLLECTED

BARSTOW CALIFORNIA HILLS DAIRY       AM 53027002904912039662 12 20 67      344
   131I=ND              133I=ND         137CS=ND            K=1.23E00
   89SR=0               90SR=0.7

BARSTOW CALIFORNIA HILLS DAIRY       AM 53027002904912039661 12 22 67      344
   131I=ND              133I=ND         137CS=ND            K=1.41E00
   ND                   CHEM

BARSTOW CALIFORNIA HILLS DAIRY       AM 53027002904912039657 12 23 67      344
   131I=ND              133I=ND         137CS=ND            K=1.54E00
   ND                   CHEM

BIG PINE CAUIFORNIA DUNAGAN RANCH    AM 51036502704913025471 07 12 67 8390009
   131I=ND              137CS=ND        K=1.60E00           89SR=5
   90SR=3.0

BIG PINE CALIFORNIA DUNAGAN RANCH    AM 51036502704913025530 08 02 67 8390009
   131I=ND              137CS=1.1E01    K=2.08E00           89SR=0
   90SR=4.3

BIG PINE CALIFORNIA DUNAGAN RANCH    PM 51036502704913025888 09 12 67 8390009
   131I=ND              137CS=ND        K=0.88E00           ND
   CHEM

BIG PINE CALIFORNIA DUNAGAN RANCH    AM 51036502704913034384 10 04 67 8390009
   131I=ND              137CS=ND        K=1,76E00           89SR=3
   90SR=1.8

BISHOP CALIFORNIA SIERRA FARMS       AM 51037002704912025465 07 11 67 8290021
   131I=ND              137CS=1.7E01    K=1.46E00           89SR=3
   90SR=5.3

NOTE--MILK,WATER,RADON UNITS ARE PCI/L,EXCEPT K=GM/L,
     FOOD AND FEED UNITS ARE PCI/KGM,EXCEPT K=GM/KGM,
     SURVEILLANCE AIR RESULTS ARE PCI/M3,
     SOIL RESULTS ARE PCI/GM,
     LT(X) DENOTES A RESULT LESS THAN X.
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CALIFORNIA MILK - JULY 1967-DEC 1967                            COLLECTED

BISHOP CALIFORNIA SIERRA FARMS       AM 51037002704913025531 08 02 67 8290021
   131I=ND              137CS=1.5E01      K=1.69E00             89SR=0
   90SR=4.0

BISHOP CALIFORNIA SIERRA FARMS       AM 51037002704912025891 09 12 67 8290021
   131I=ND              137CS=1.6E01      K=1.43E00             89SR=1
   90SR=5.5

BISHOP CALIFORNIA SIERRA FARMS       AM 51037002704912034395 10 03 67 8290021
   131I=ND              137CS=10E00       K=1.36E00             89SR=0
   90SR=6.4

BISHOP CALIFORNIA SIBRRA FARMS       PM 51037002704912037379 11 01 67 8290021
   131I=ND              137CS=ND          K=1.44E0              89SR=2
   90SR=5.9

BRAWLEY CALIFORNIA DATELAND DAIRY    PM 56040007504912025372 07 02 67 0002347
   131I=ND              137CS=ND          K=1.37E00             NO
   CHEM

BRAWLEY CALIFORNIA DATELAND DAIRY    PM 56040007504912025405 07 04 67 0002347
   131I=ND              137CS=ND          K=1.50E00             NO
   CHEM

BRAWLEY CALIFORNIA DATELAND DAIRY    PM 56040007504912025444 07 06 67 0002347
   131I=ND              137CS=ND          K=1.39E00             NO
   CHEM

BRAWLEY CALIFORNIA DATELAND DAIRIES  PM 53040007504912039674 12 18 67     347
   131I=ND              133I=ND           137CS=ND              K=1.38E00
   NO                   CHEM

NOTE--MILK,WATER,RADON UNITS ARE PCI/L,EXCEPT K=GM/L,
     FOOD AND FEED UNITS ARE PCI/KGM,EXCEPT K=GM/KGM,
     SURVEILLANCE AIR RESULTS ARE PCI/M3,
     SOIL RESULTS ARE PCI/GM,
     LT(X) DENOTES A RESULT LESS THAN X.
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CALIFORNIA MILK - JULY 1967-DEC 1967                                  COLLECTED

BRAWLEY CALIFOPNIA DATELAND DAIRIES   AM 53040007504912039637 12 19 67      347
   131I=ND               133I=ND         137CS=ND               K=1.67E00
   89SR=0                90SR=3.2

BRAWLEY CALIFORNIA DATELAND DAIRIES   PM 53040007504912039659 12 20 67      347
   131I=ND               133I=ND         137CS=ND               K=1.56E00
   NO                    CHEM

BRAWLEY CALIFORNIA DATELAND DAIRIES   AM 53040007504912039666 12 21 67      347
   131I=ND               133I=ND         137CS=ND               K=1.56E00
   89SR=0                90SR=2.5

CHINO CALIFORNIA INST. FOR MEN        PM 53060007104912039629 12 19 67      349
   131I=ND               133I=ND         137CS=ND               K=1.49E00
   89SR=0                90SR=2.3

CHINO CALIFORNIA INST. FOR MEN        PM 53060007104912039632 12 20 67      349
   131I=ND               133I=ND         137CS=ND               K=1.32E00
   NO                    CHEM

CHINO CALIFORNIA INST. FOR MEN        PM 53060007104912039631 12 21 67      349
   131I=ND               133I=ND         137CS=ND               K=1.35E00
   89SR=0                90SR=2.9

CHINO CALIFORNIA INST. FOR MEN        AM 53060007104912039665 12 21 67      349
   131I=ND               133I=ND         137CS=ND               K=1.61E00
   NO                    CHEM

CHINO CALIFORNIA INST. FOR MEN        AM 53060007104912039660 12 22 67      349
   131I=ND               133I=ND         137CS=ND               K=1.45E00
   NO                    CHEM

NOTE--MILK,WATER,RADON UNITS ARE PCI/L,EXCEPT K=GM/L,
      FOOD AND FEED UNITS ARE PCI/KGM,EXCEPT K=GM/KGM,
      SURVEILLANCE AIR RESULTS ARE PCI/M3,
      SOIL RESULTS ARE PCI/GM,
      LT(X) DENOTES A RESULT LESS THAN X.
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CALIFORNIA MILK - JULY 1967-DEC 1967                                  COLLECTED

CHINO CALIFORNIA INST. FOR MEN         AM 5306000710491203967l 12 23 67       349
    131I=ND              133I=ND           137CS=ND           K=1.36E00
    ND                   CHEM

CHINO CALIFORNIA INST. FOR MEN         PM 53060007104912039723 12 24 67       349
    131I=ND              133I=ND           137CS=ND           K=1.37E00
    ND                   CHEM

ESCONDIDO CALIFORNIA BERNARD DAIRY     AM 56113007304912025441 07 07 67 0002346
    131I=ND              137CS=ND          K=1.43E00          89SR=1
    90SR=2.5

ESCONDIDO CALIFORNIA BERNARD DAIRY     AM 53113007304912039468 12 18 67       346
    131I=ND              133I=ND           137CS=ND           K=1.39E00
    89SR=0               90SR=1.6

ESCONDIDO CALIFORNIA BERNARD DAIRY     PM 53113007304912039557 12 18 67       346
    131I=ND              133I=ND           137CS=ND           K=1.36E00
    ND                   CHEM

ESCONDIDO CALIFORNIA BERNARD DAIRY     AM 53113007304912039555 12 19 67       346
    131I=ND              133I=ND           137CS=ND           K=1.46E00
    89SR=0               90SR=2.3

FRESNO CALIFORNIA STATE COLLEGE CRMRY AM 56130001904912025361 07 01 67 0002339
    131I=ND              137CS=1.3E01      K=1.60E00          ND
    CHEM

FRESNO CALIFORNIA STATE COLLEGE CRMRY AM 56130001904912025382 07 02 67 0002339
    131I=ND              137CS=1.3E01      K=1.54E00          ND
    CHEM

NOTE--MILK,WATER,RADON UNITS ARE PCI/L,EXCEPT K=GM/L,
      FOOD AND FEED UNITS ARE PCI/KGM,EXCEPT K=GM/KGM,
      SURVEILLANCE AIR RESULTS ARE PCI/M3,
      SOIL RESULTS ARE PCI/GM,
      LT(X) DENOTES A RESULT LESS THAN X.
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CALIFORNIA MILK - JULY 1967-DEC 1967                         COLLECTED

FRESNO CALIFORNIA STATE COLLEGE CRMRY AM 56130001904912025385 07 03 67 0002339
   131I=ND            137CS=ND           K=1.21E00          NO
   CHEM

FRESNO CALIFORNIA STATE COLLEGE CRMRY AM 56130001904912025379 07 04 67 0002339
   131I=ND            137CS=8.0E00       K=1.39E00          NO
   CHEM

FRESNO CALIFORNIA STATE COLLEGE CRMRY AM 56130001904912025398 07 05 67 0002339
   131I=ND            137CS=ND           K=1.49E00          NO
   CHEM

FRESNO CALIFORNIA STATE COLLEGE CRMRY AM 53130001904912039781 12 23 67     339
   131I=ND            133I=ND            137CS=ND           K=1.35E00
   NO                 CHEM

FRESNO CALIFORNIA STATE COLLEGE CRMRY AM 53130001904912039780 12 24 67     339
   131I=ND            133I=ND            137CS=ND           K=1.27E00
   NO                 CHEM

HANFORD CALIFORNIA SUPERIOR DAIRY     AM 53143003104912039747 12 23 67     340
   131I=ND            133I=ND            137CS=ND           K=1.40E00
   NO                 CHEM

HANFORD CALIFORNIA SUPERIOR DAIRY     AM 53143003104912039748 12 24 67     340
   131I=ND            133I=ND            137CS=ND           K=1.30E00
   NO                 CHEM

INDEPENDENCE CALIFORNIA J K + T SMITH AM 53156502704913039163 12 16 67 2212014
   131I=ND            133I=ND            137CS=ND           K=1.67E00
   89SR=0             90SR=4.8

NOTE--MILK,WATER,RADON UNITS ARE PCI/L,EXCEPT K=GM/L,
      FOOD AND FEED UNITS ARE PCI/KGM,EXCEPT K=GM/KGM,
      SURVEILLANCE AIR RESULTS ARE PCI/M3,
      SOIL RESULTS ARE PCI/GM,
      LT(X) DENOTES A RESULT LESS THAN X.
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CALIFORNIA MILK - JULY 1967-DEC 1967                             COLLECTED

INDEPENDENCB CALIFORNIA J K + T SMITH AM 53156502704913039211 12 17 67 2212014
   131I=ND             133I=ND             137CS=ND            K=1.68E00
   89SR=4              90SR=2.8

INDEPENDENCB CALIFORNIA J K + T SMITH AM 53156502704913039354 12 18 67 2212014
   131I=ND             133I=ND             137CS=ND            K=1.73E00
   89SR=0              90SR=9.0

INDEPENDENCE CALIFORNIA C PICARD RANCHAM 53156502704913039167 12 16 67 6992188
   133I=ND             131I=ND             137CS=ND            K=1.58E00
   89SR=0              90SR=3.2

INDEPENDENCE CALIFORNIA C PICARD RANCHPM 53156502704913039355 12 17 67 6992188
   131I=ND             133I=ND             137CS=ND            K=1.64E00
   89SR=0              90SR=2.4

INDEPENDENCE CALIFORNIA C PICARD RANCHAM 53156502704913039356 12 18 67 6992188
   131I=ND             133I=ND             137CS=ND            K=1.56E00
   89SR=1              90SR=2.7

LONE PINE CALIFORNIA LONE PINE DAIRY  AM 51185502704912025470 07 11 67 8390023
   131I=ND             137CS=2.5E01        K=1.36E00           89SR=5
   90SR=0.9

LONE PINE CALIFORNIA LONE PINE DAIRY  AM 51185502704912025532 08 02 67 8390023
   131I=ND             137CS=2.6E01        K=1.41E00           89SR=0
   90SR=3.3

LONE PINE CALIFORNIA LONE PINE DAIRY  AM 51185502704912025883 09 13 67 8390023
   131I=ND             137CS=ND            K=1.66E00           89SR=0
   90SR=1.9

NOTE--MILK,WATER,RADON UNITS ARE PCI/L,EXCEPT K=GM/L,
      FOOD AND FEED UNITS ARE PCI/KGM,EXCEPT K=GM/KGM,
      SURVEILLANCE AIR RESULTS ARE PCI/M3,
      SOIL RESULTS ARE PCI/GM,
      LT(X) DENOTES A RESULT LESS THAN X.

                                PAGE   10A
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CALIFORNIA MILK - JULY 1967-DEC 1967                              COLLECTED

LONE PINE CALIFORNIA LONE PINE DAIRY  AM 511855027049120343 89 10 04 67 8390023
   131I=ND             137CS=ND           K=1.44E00           89SR=0
   90SR=1.8

LONE PINE CALIFORNIA LONE PINE DAIRY  PM 51185502704912037398 11 01 67 8390023
   131I=ND             137CS=ND           K=1.48E00           89SR=0
   90SR=2.2

LONE PINE CALIFORNIA LONE PINE DAIRY  AM 53185502704912039219 12 17 67 8392023
   131I=ND             133I=ND            137CS=ND            K=1.55E00
   89SR=0              90SR=2.8

LONE PINE CALIFORNIA LONE PINE DAIRY  AM 53185502704912039358 12 18 67 8392023
   131I=ND             133I=ND            137CS=ND            K=1.54E00
   89SR=3              90SR=1.6

MERCED CALIFORNIA SUNSHINE DAIRY      AM 56205004704912025393 07 02 67 0002336
   131I=ND             137CS=1.0E01       K=1.45E00           NO
   CHEM

MERCED CALIFORNIA SUNSHINE DAIRY      AM 56205004704912025392 07 03 67 0002336
   131I=ND             137CS=ND           K=1.49E00           NO
   CHEM

MERCED CALIFORNIA SUNSHINE DAIRY      PM 56205004704912025394 07 04 67 0002336
   131I=ND             137CS=ND           K=1.41E00           NO
   CHEM

MERCED CALIFORNIA SUNSHINE DAIRY      AM 56205004704912025388 07 05 67 0002336
   131I=ND             137CS=6.0E00       K=1.48E00           NO
   CHEM

NOTE--MILK,WATER,RADON UNITS ARE PCI/L,EXCEPT K=GM/L,
      FOOD AND FEED UNITS ARE PCI/KGM,EXCEPT K=GM/KGM,
      SURVEILLANCE AIR RESULTS ARE PCI/M3,
      SOIL RESULTS ARE PCI/GM,
      LT(X) DENOTES A RESULT LESS THAN X.
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CALIFORNIA MILK - JULY 1967-DEC 1967                         COLLECTED

MERCED CALIFORNIA SUNSHINE DAIRY      AM 56205004704912025440 07 06 67 0002336
   131I=ND              137CS=ND          K=1.41E00          NO
   CHEM

MERCED CALIFORNIA SUNSHINE DAIRY      AM 56205004704912025445 07 07 67 0002336
   131I=ND              137CS=1.5E01      K=1.66E00          NO
   CHEM

MERCED CALIFORNIA SUNSHINE DAIRY      AM 56205004704912025452 07 08 67 0002336
   131I=ND              137CS=ND          K=1.35E00          NO
   CHEM

NEWHALL CALIFORNIA BURBANK CREAMERY   PM 56226003704912025375 07 01 67 0002342
   131I=ND              137CS=8.0E00      K=1.43E00          NO
   CHEM

NEWHALL CALIFORNIA BURBANK CREAMERY   AM 56226003704912025386 07 02 67 0002342
   131I=ND              137CS=ND          K=1.56E00          NO
   CHEM

NEWHALL CALIFORNIA BURBANK CREAMERY   AM 56226003704912025378 07 03 67 0002342
   131I=ND              137CS=ND          K=1.54E00          NO
   CHEM

NEWHALL CALIFORNIA BURBANK CREAMERY   AM 56226003704912025389 07 04 67 0002342
   131I=ND              137CS=ND          K=1.37E00          NO
   CHEM

NEWHALL CALIFORNIA BURBANK CREAMERY   AM 56226003704912025395 07 05 67 0002342
   131I=ND              137CS=9.0E00      K=1.29E00          NO
   CHEM

NOTE--MILK,WATER,RADON UNITS ARE PCI/L,EXCEPT K=GM/L,
      FOOD AND FEED UNITS ARE PCI/KGM,EXCEPT K=GM/KGM,
      SURVEILLANCE AIR RESULTS ARE PCI/M3,
      SOIL RESULTS ARE PCI/GM,
      LT(X) DENOTES A RESULT LESS THAN X.
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CALIFORNIA MILK - JULY 1967-DEC 1967                              COLLECTED

NEWHALL CALIFORNIA BURBANK CREAMERY   AM 56226003704912025396 07 06 67 0002342
   131I=ND            137CS=ND            K=1.61E00          NO
   CHEM

NEWHALL CALIFORNIA BURBANK CREAMERY   AM 53226003704912039469 12 18 67       342
   131I=ND            133I=ND             137CS=ND           K=1.42E00
   89SR=0             90SR=1.6

NEWHALL CALIFORNIA BURBANK CREAMERY   AM 53226003704912039470 12 19 67       342
   131I=ND            133I=ND             137CS=ND           K=1.42E00
   89SR=0             90SR=2.1

NEWHALL CALIFORNIA BURBANK CREAMERY   AM 53226003704912039590 12 20 67       342
   131I=ND            133I=ND             137CS=ND           K=1.51E00
   ND                 CHEM

NEWHALL CALIFORNIA BURBANK CREAMERY   AM 53226003704912039635 12 21 67       342
   131I=ND            133I=ND             137CS=ND           K=1.54E00
   ND                 CHEM

NEWHALL CALIFORNIA BURBANK CREAMERY   AM 53226003704912039663 12 22 67       342
   131I=ND            133I=ND             137CS=ND           K=1.58E00
   ND                 CHEM

NEWHALL CALIFORNIA BURBANK CREAMERY   AM 53226003704912039664 12 23 67       342
   131I=ND            133I=ND             137CS=ND           K=1.28E00
   ND                 CHEM

NEWHALL CALIFORNIA BURBANK CREAMERY   AM 53226003704912039722 12 24 67       342
   131I=ND            133I=ND             137CS=ND           K=1.41E00
   ND                 CHEM

NOTE--MILK,WATER,RADON UNITS ARE PCI/L,EXCEPT K=GM/L,
      FOOD AND FEED UNITS ARE PCI/KGM,EXCEPT K=GM/KGM,
      SURVEILLANCE AIR RESULTS ARE PCI/M3,
      SOIL RESULTS ARE PCI/GM,
      LT(X) DENOTES A RESULT LESS THAN X.
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CALIFORNIA MILK - JULY 1967-DEC 1967                                   COLLECTED

OLANCHA CALIFORNIA ROY HUNTER RANCH    PM 53237502704913039170 12 16 67 0002018
    133I=ND             131I=ND            137CS=ND            K=1.78E00
    89SR=3              90SR=0.5

OLANCHA CALIFORNIA ROY HUNTER RANCH    AM 53237502704913039215 12 17 67 1912018
    131I=ND             133I=ND            137CS=ND            K=1.58E00
    89SR=1              90SR=1.8

OLANCHA CALIFORNIA ROY HUNTER RANCH       53237502704913039360 12 18 67 1912018
    131I=ND             133I=ND            137CS=ND            K=ND
    89SR=0              90SR=2.9

OLANCHA CALIFORNIA HAYHURST RANCH      AM 51237502704913025473 07 11 67 6370020
    131I=ND             137CS=ND           K=1.62E00           89SR=0
    90SR=2.1

OLANCHA CALIFORNIA HAYHURST RANCH      PM 51237502704913025539 08 01 67 6370020
    131I=ND             137CS=ND           K=1.70E00           89SR=0
    90SR=1.6

OLANCHA CALIFORNIA HAYHURST RANCH      PM 51237502704913025879 09 11 67 6370020
    131I=ND             137CS=ND           K=1.35E00           89SR=0
    90SR=2.8

OLANCHA CALIFORNIA HAYHURST RANCH      AM 51237502704913034391 10 03 67 6370020
    131I=ND             137CS=ND           K=1.48E00           89SR=0
    90SR=2.2

OLANCHA CALIFORNIA HAYHURST RANCH      PM 51237502704913037399 11 01 67 6370020
    131I=ND             137CS=ND           K=1.40E0            89SR=1
    90SR=1.3

NOTE--MILK,WATER,RADON UNITS ARE PCI/L,EXCEPT K=GM/L,
      FOOD AND FEED UNITS ARE PCI/KGM,EXCEPT K=GM/KGM,
      SURVEILLANCE AIR RESULTS ARE PCI/M3,
      SOIL RESULTS ARE PCI/GM,
      LT(X) DENOTES A RESULT LESS THAN X.
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CALIFORNIA MILK - JULY 1967-DEC 1967                             COLLECTED

OLANCHA CALIFORNIA HAYHURST RANCH     AM 53237502704913039162 12 16 67 0002020
   131I=ND              133I=ND              137CS=ND             K=1.15E00
   89SR=1               90SR=2.3

OLANCHA CALIFORNIA HAYHURST RANCH     AM 53237502704913039208 12 17 67 6372020
   131I=ND              133I=ND              137CS=ND             K=1.09E00
   89SR=2               90SR=1.6

OLANCHA CALIFORNIA HAYHURST RANCH     AM 53237502704913039362 12 18 67 6372020
   131I=2.0E01          133I=ND              137CS=ND             K=1.20E00
   89SR=1               90SR=2.5

RIVERSIDE CALIFORNIA ORANGE CREST DRY PM 56287006504912025363 07 01 67 0002345
   131I=ND              137CS=ND             K=1.65E00            NO
   CHEM

RIVERSIDE CALIFORNIA ORANGE CREST DRY AM 56287006504912025374 07 02 67 0002345
   131I=ND              137CS=ND             K=1.55E00            89SR=0
   90SR=2.3

RIVERSIDE CALIFORNIA ORANGE CREST DRY AM 56287006504912025370 07 03 67 0002345
   131I=ND              137CS=ND             K=1.69E00            NO
   CHEM

RIVERSIDE CALIFORNIA ORANGE CREST DRY AM 56287006504912025390 07 05 67 0002345
   131I=ND              137CS=8.0E00         K=1.72E00            NO
   CHEM

RIVERSIDE CALIFORNIA ORANGE CREST DRY PM 56287006504912025403 07 05 67 0002345
   131I=ND              137CS=ND             K=1.46E00            NO
   CHEM

NOTE--MILK,WATER,RADON UNITS ARE PCI/L,EXCEPT K=GM/L,
      FOOD AND FEED UNITS ARE PCI/KGM,EXCEPT K=GM/KGM,
      SURVEILLANCE AIR RESULTS ARE PCI/M3,
      SOIL RESULTS ARE PCI/GM,
      LT(X) DENOTES A RESULT LESS THAN X.
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CALIFORNIA MILK - JULY 1967-DEC 1967                               COLLECTED

RIVERSIDE CALIFORNIA CRANGE CREST DRY AM 562870065049120254420 07 07 67 0002345
   131I=ND             137CS=ND              K=1.36E00          ND
   CHEM

RIVERSIDE CALIFORNIA ORANGE CREST DRY AM 53287006504912039467 12 18 67      345
   131I=ND             133I=ND               137CS=ND           K=1.59E00
   89SR=0              90SR=2.3

RIVERSIDE CALIFORNIA ORANGE CREST DRY AM 53287006504912039554 12 19 67      345
   133I=ND             131I=ND               137CS=ND           K=1.59E00
   89SR=0              90SR=3.3

RIVERSIDE CALIFORNIA ORANGE CREST DRY AM 53287006504912039556 12 20 67      345
   131I=ND             133I=ND               137CS=ND           K=1.61E00
   89SR=0              90SR=3.4

RIVERSIDE CALIFORNIA ORANGE CREST DRY AM 53287006504912039633 12 21 67      345
   131I=ND             133I=ND               137CS=ND           K=1.39E00
   89SR=0              90SR=4.4

RIVERSIDE CALIFORNIA ORANGE CREST DRY AM 53287006504912039668 12 22 67      345
   131I=ND             133I=ND               137CS=ND           K=1.50E00
   ND                  CHEM

RIVERSIDE CALIFORNIA ORANGE CREST DRY AM 53287006504912039667 12 24 67      345
   131I=ND             133I=ND               137CS=ND           K=1.32E00
   ND                  CHEM

SAN LUIS OBISPO CALIFORNIA FOREMOST COAM 53310007904912039471 12 18 67      335
   131I=ND             133I=ND               137CS=ND           K=1.51E00
   89SR=0              90SR=1.8

NOTE--MILK,WATER,RADON UNITS ARE PCI/L,EXCEPT K=GM/L,
      FOOD AND FEED UNITS ARE PCI/KGM,EXCEPT K=GM/KGM,
      SURVEILLANCE AIR RESULTS ARE PCI/M3,
      SOIL RESULTS ARE PCI/GM,
      LT(X) DENOTES A RESULT LESS THAN X.
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CALIFORNIA MILK - JULY 1967-DEC 1967                             COLLECTED

SAN LUIS OBISPO CALIFORNIA FOREMOST COPM 53310007904912039558 12 19 67      335
   131I=ND               133I=ND              137CS=ND              K=1.78E00
   89SR=0                90SR=4.2

SAN LUIS OBISPO CALIFORNIA FOREMOST COAM 53310007904912039636 12 20 67      335
   131I=ND               133I=ND              137CS=ND              K=1.67E00
   89SR=0                90SR=1.2

SAN LUIS OBISPO CALIFORNIA FOREMOST COAM 53310007904912039658 12 21 67      335
   131I=ND               133I=ND              137CS=ND              K=1.37E00
   NO                    CHEM

SAN LUIS OBISPO CALIFORNIA FOREMOST COPM 53310007904912039672 12 22 67      335
   131I=ND               133I=ND              137CS=ND              K=1.66E00
   NO                    CHEM

SAN LUIS OBISPO CALIFORNIA FOREMOST COAM 53310007904912039721 12 24 67      335
   131I=ND               133I=ND              137CS=ND              K=1.00E00
   NO                    CHEM

SAN LUIS OBISPO CALIFORNIA FOREMOST COAM 53310007904912039724 12 24 67      335
   131I=ND               133I=ND              137CS=ND              K=1.54E00
   NO                    CHEM

SANTA CLARA CALIFORNIA EDELWEISS DAIRYAM 56318008504912025399 07 05 67 0002348
   131I=ND               137CS=ND             K=1.21E00             NO
   CHEM

SANTA CLARA CALIFORNIA EDELWEISS DAIRYPM 51318008504912025528 07 13 67 0002348
   131I=ND               137CS=ND             K=1.73E00             NO
   CHEM

NOTE--MILK,WATER,RADON UNITS ARE PCI/L,EXCEPT K=GM/L,
      FOOD AND FEED UNITS ARE PCI/KGM,EXCEPT K=GM/KGM,
      SURVEILLANCE AIR RESULTS ARE PCI/M3,
      SOIL RESULTS ARE PCI/GM,
      LT(X) DENOTES A RESULT LESS THAN X.
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CALIFORNIA MILK - JULY 1967-DEC 1967                          COLLECTED

SANTA CLARA CALIFORNIA EDELWEISS DAIRYPM 51318008504912025529 07 16 67 0002348
   131I=ND             137CS=1.0E01        K=1.54E00           NO
   CHEM

SANTA CLARA CALIFORNIA EDELWEISS DAIRYPM 51318008504912025527 07 18 67 0002348
   131I=ND             137CS=9.0E00        K=1.67E00           89SR=1
   90SR=1.6

SANTA CRUZ CALIFORNIA SWISS DAIRY      PM 56319008704912025371 07 02 67 0002333
   131I=ND             137CS=1.4E01        K=1.44E00           NO
   CHEM

SANTA CRUZ CALIFORNIA SWISS DAIRY      PM 56319008704912025397 07 04 67 0002333
   131I=ND             137CS=1.1E01        K=1.01E00           NO
   CHEM

SANTA CRUZ CALIFORNIA SWISS DAIRY      PM 56319008704912025446 07 06 67 0002333
   131I=ND             137CS=ND            K=1.58E00           NO
   CHEM

SANTA CRUZ CALIFORNIA SWISS DAIRY      PM 56319008704912025453 07 08 67 0002333
   131I=ND             137CS=7.0E00        140BA=1.62E00       NO
   CHEM

SANTA ROSA CALIFORNIA ARLINGTON FARMS AM 56324009704912025404 07 03 67 0002323
   131I=ND             137CS=ND            K=1.47E00           NO
   CHEM

SANTA ROSA CALIFORNIA ARLINGTON FARMS AM 56324009704912025401 07 05 67 0002323
   131I=ND             137CS=1.1E01        K=1.43E00           NO
   CHEM

NOTE--MILK,WATER,RADON UNITS ARE PCI/L,EXCEPT K=GM/L,
      FOOD AND FEED UNITS ARE PCI/KGM,EXCEPT K=GM/KGM,
      SURVEILLANCE AIR RESULTS ARE PCI/M3,
      SOIL RESULTS ARE PCI/GM,
      LT(X) DENOTES A RESULT LESS THAN X.
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COLORADO MILK - JULY 1967-DEC 1967                          COLLECTED

ALAMOSA COLORADO ALAMOSA MILK CO          54001000305812025600 08 01 67 0002211
   131I=ND          137CS=ND              K=1.50E00         89SR=2
   90SR=3.0

ALAMOSA COLORADO ALAMOSA MILK CO INC   PM 54001000305812034989 10 23 67 0002211
   131I=ND          137CS=ND              K=1.48E00         NO
   CHEM

ALLISON COLORADO VALLEY VIEW RANCH     AM 54001506705813025572 07 31 67 7402001
   131I=ND          137CS=ND              K=1.61E00         89SR=1
   90SR=4.5

ALLISON COLORADO VALLEY VIEW RANCH     PM 54001506705813025841 09 04 67 7342229
   131I=ND          137CS=ND              K=1.33E00         89SR=0
   90SR=5.8

ALLISON COLORADO VALLEY VIEW RANCH     AM 54001506705813037005 10 23 67 6162229
   131I=ND          137CS=ND              K=1.64E00         NO
   CHEM

DEL NORTE COLORADO 2 1/2 MI N E           54012710505813025588 08 01 67 7302001
   131I=ND          137CS=1.0E01          K=1.5             89SR=4
   90SR=4.3

DEL NORTE COLORADO PAULSON RANCH       AM 54012710505813025871 09 07 67 6302054
   131I=ND          137CS=ND              K=1.28E00         89SR=1
   90SR=4.8

DEL NORTE COLORADO PAULSON RANCH          54012710505813037057 10 20 67 6392054
   131I=ND          137CS=ND              K=1.09E00         NO
   CHEM.

NOTE--MILK,WATER,RADON UNITS ARE PCI/L,EXCEPT K=GM/L,
      FOOD AND FEED UNITS ARE PCI/KGM,EXCEPT K=GM/KGM,
      SURVEILLANCE AIR RESULTS ARE PCI/M3,
      SOIL RESULTS ARE PCI/GM,
      LT(X) DENOTES A RESULT LESS THAN X.
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COLORADO MILK - JULY 1967-DEC 1967                                  COLLECTED

DURANGO COLORADO CLOVER RICH DAIRY    PM 54016006705812025599 07 30 67 0002209
   131I=ND             137CS=ND          K=1.54E00           89SR=0
   90SR=5.3

DURANGO COLORADO CLOVER RICH DAIRY    PM 54016006705812034975 10 21 67 0002209
   131I=ND             137CS=ND          K=1.35E00

PAGOSA SPRINGS COLORADO R BROWN RANCH AM 54040500705813025562 08 01 67 2102029
   131I=ND             137CS=ND          K=1.49E00           89SR=5
   90SR=6.8

PAGOSA SPRINGS COLORADO R BROWN RANCH AM 54040500705813025872 09 05 67 2112029
   131I=ND             137CS=1.0E01      K=1.34E00           89SR=4
   90SR=6.5

PAGOSA SPRINGS COLORADO R BROWN RANCH AM 54040500705813037002 10 23 67 2102029
   131I=ND             137CS=ND          K=1.44E00           NO
   CHEM

ROMEO COLORADO CHRISTENSEN FARM       AM 54042502105813025595 07 30 67 7102001
   131I=ND             137CS=ND          K=1.65E00           89SR=3
   90SR=6.6

ROMEO COLORADO 2.5 MI S OF ROMEO COLO AM 54042502105813037236 10 25 67 2202022
   131I=ND             137CS=ND          K=1.51E00           NO
   CHEM

TRINIDAD COLORADO PETRAMALA DAIRY     AM 54048007105812025878 09 12 67 6402212
   131I=ND             137CS=2.0E01      K=1.57E00           89SR=0
   90SR=5.1

TRINIDAD COLORADO PETRAMALA DAIRY     PM 54048007105812037019 10 24 67 0002212
   131I=ND             137CS=ND          K=1.48E00           NO
   CHEM

NOTE--MILK,WATER,RADON UNITS ARE PCI/L,EXCEPT K=GM/L,
      FOOD AND FEED UNITS ARE PCI/KGM,EXCEPT K=GM/KGM,
      SURVEILLANCE AIR RESULTS ARE PCI/M3,
      SOIL RESULTS ARE PCI/GM,
      LT(X) DENOTES A RESULT LESS THAN X.
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NEVADA MILK - JULY 1967-DEC 1967                              COLLECTED

ADAVEN NEVADA PINE CREEK RANCH        AM 51011002327913025475 07 12 67 4710020
   131I=ND             137CS=1.4E01      K=1.76E00          89SR=2
   90SR=7.2

ALAMO NEVADA M K STEWART DAIRY        PM 51014001727912025519 07 22 67 5410078
   131I=ND             137CS=ND          K=1.48E00          89SR=0
   90SR=2.1

ALAMO NEVADA M K STEWART DAIRY        AM 51014001727912025549 08 03 67 9470078
   131I=ND             137CS=1.9E01      K=1.65E00          89SR=1
   90SR=16.5

ALAMO NEVADA M K STEWART DAIRY        AM 51014001727912025781 09 07 67 9470078
   131I=ND             137CS=ND          K=1.61E00          89SR=0
   90SR=2.6

ALAMO NEVADA M K STEWART DAIRY        PM 51014001727912034431 10 03 67 9470078
   131I=ND             137CS=10E00       K=1.45E00          89SR=1
   90SR=1.6

ALAMO NEVADA M K STEWART DAIRY        AM 51014001727912037331 11 01 67 6470078
   131I=ND             137CS=ND          K=1.52E00          89SR=0
   90SR=4.7

ALAMO NEVADA M K STEWART DAIRY        PM 51014001727912037822 11 29 67 6470078
   131I=ND             137CS=ND          K=1.50E00          89SR=1
   90SR=1.9

AUSTIN NEVADA YOUNGS RANCH            AM 51018701527913025518 07 19 67 8390010
   131I=ND             137CS=ND          K=1.86E00          89SR=0
   90SR=3.2

NOTE--MILK,WATER,RADON UNITS ARE PCI/L,EXCEPT K=GM/L,
      FOOD AND FEED UNITS ARE PCI/KGM,EXCEPT K=GM/KGM,
      SURVEILLANCE AIR RESULTS ARE PCI/M3,
      SOIL RESULTS ARE PCI/GM,
      LT(X) DENOTES A RESULT LESS THAN X.
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NEVADA MILK - JULY 1967-DEC 1967                               COLLECTED

AUSTIN NEVADA YOUNGS RANCH          AM 5101870152791302563O 08 09 67 4210010
   131I=ND            137CS=ND         K=1.56E00           89SR=0
   90SR=5.6

AUSTIN NEVADA YOUNGS RANCH          AM 51018701527913025908 09 14 67 8390010
   131I=ND            137CS=1.1E01     K=1.59E00           89SR=0
   90SR=3.8

AUSTIN NEVADA YOUNGS RANCH          AM 51018701527913034520 10 05 67 6390010
   131I=ND            137CS=ND         K=1.51E00           89SR=1
   90SR=5.2

AUSTIN NEVADA YOUNGS RANCH          AM 51018701527913037423 11 01 67 8390010
   131I=ND            137CS=ND         K=1.56E00           89SR=1
   90SR=4.2

AUSTIN NEVADA TRIPLE T RANCH        AM 51018701527913025464 07 12 67 6390016
   131I=ND            137CS=1.3E01     K=1.50E00           89SR=1
   90SR=3.4

AUSTIN NEVADA TRIPLE T RANCH        AM 51018701527913025643 08 08 67 4210016
   131I=ND            137CS=ND         K=1.60E00           89SR=1
   90SR=2.7

AUSTIN NEVADA TRIPLE T RANCH        AM 51018701527913025910 09 14 67 8390016
   131I=ND            137CS=ND         K=1.36E00           89SR=0
   90SR=2.3

AUSTIN NEVADA TRIPLE T RANCH        PM 51018701527913034859 10 17 67 8390016
   131I=ND            137CS=ND         K=1.26E00           89SR=2
   90SR=1.4

NOTE--MILK,WATER,RADON UNITS ARE PCI/L,EXCEPT K=GM/L,
      FOOD AND FEED UNITS ARE PCI/KGM,EXCEPT K=GM/KGM,
      SURVEILLANCE AIR RESULTS ARE PCI/M3,
      SOIL RESULTS ARE PCI/GM,
      LT(X) DENOTES A RESULT LESS THAN X.
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NEVADA MILK - JULY 1967-DEC 1967                                    COLLECTED

AUSTIN NEVADA TRIPLE T RANCH          AM 51018701527913037422 11 01 67 8390016
   131I=ND              137CS=ND         K=1.27E00          89SR=0
   90SR=3.8

BATTLE MT. NEVADA T LAZY S RANCH      AM 51020801527913025775 08 27 67 7200050
   131I=ND              137CS=ND         K=1.40E00          89SR=0
   90SR=2.7

BATTLE MT. NEVADA T LAZY S RANCH      AM 51020801527913025916 09 23 67 6700050
   131I=ND              137CS=ND         K=1.45E00          89SR=1
   90SR=3.4

BATTLE MT. NEVADA T LAZY S RANCH      AM 51020801527913034867 10 17 67 8290050
   131I=ND              137CS=20E00      K=1.37E00          89SR=0
   90SR=5.6

BATTLE MT. NEVADA T LAZY S RANCH      PM 51020801527913037564 11 07 67 8270050
   131I=ND              137CS=ND         K=1.48E00          89SR=1
   90SR=3.1

BEOWAWE NEVADA FRIESEN RANCH          AM 51021601127913025778 08 28 67 1900070
   131I=ND              137CS=ND         K=1.52E00          89SR=2
   90SR=1.6

BEOWAWE NEVADA FRIESEN RANCH          AM 51021601127913025921 09 23 67 6700070
   131I=ND              137CS=ND         K=1.42E00          89SR=1
   90SR=2.5

BEOWAWE NEVADA FRIESEN RANCH          AM 51021601127913037600 11 08 67 6990070
   131I=ND              137CS=1.1E01     K=1.89E00          89SR=1
   90SR=5.3

NOTE--MILK,WATER,RADON UNITS ARE PCI/L,EXCEPT K=GM/L,
      FOOD AND FEED UNITS ARE PCI/KGM,EXCEPT K=GM/KGM,
      SURVEILLANCE AIR RESULTS ARE PCI/M3,
      SOIL RESULTS ARE PCI/GM,
      LT(X) DENOTES A RESULT LESS THAN X.
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APPENDIX

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NEVADA MILK - JULY 1967--DEC 1967                                      COLLECTED

CALIENTE NEVADA YOUNGS RANCH                PM 5103040172791303 7683 11 16 67 6310067
    131I=ND             137CS=1.7E01           K=1.74E00           89SR=0
    90SR=2.8

CALIENTE NEVADA YOUNGS RANCH                PM 51030401727913037821 11 29 67 1310067
    131I=ND             137CS=ND               K=1.49E00           89SR=1
    90SR=0.9

CURRANT NEVADA BLUE EAGLE RANCH             PM 51038602327913025467 07 11 67 4930099
    131I=ND             137CS=2.8E01           K=1.68E00           89SR=3
    90SR=2.6

CURRANT NEVADA BLUE EAGLE RANCH             PM 51038602327913025774 08 24 67 1900099
    131I=ND             137CS=1.2E01           K=1.56E00           89SR=6
    90SR=0.0

CURRANT NEVADA BLUE EAGLE RANCH             AM 51038602327913032766 09 19 67 4930099
    131I=ND             137CS=2.0E01           K=1.73E00           89SR=1
    90SR=3.0

CURRANT NEVADA BLUE EAGLE RANCH             PM 51038602327913034874 10 15 67 4930099
    131I=ND             137CS=29E00            K=1.69E00           89SR=1
    90SR=3.1

CURRANT NEVADA BLUE EAGLE RANCH             PM 51038602327913037597 11 11 67 4930099
    131I=ND             137CS=3.4E01           K=1.43E00           89SR=0
    90SR=6.8

CURRIE NEVADA KITT LEAR RANCH               AM 51038800727913025918 09 25 67 6300100
    131I=ND             137CS=ND               K=1.48E00           89SR=1
    90SR=4.8

NOTE--MILK,WATER,RADON UNITS ARE PCI/L,EXCEPT K=GM/L,
      FOOD AND FEED UNITS ARE PCI/KGM,EXCEPT K=GM/KGM,
      SURVEILLANCE AIR RESULTS ARE PCI/M3,
      SOIL RESULTS ARE PCI/GM,
      LT(X) DENOTES A RESULT LESS THAN X.
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NEVADA MILK - JULY 1967-DEC 1967                              COLLECTED

DUCKWATER NEVADA HALSTEAD RANCH      PM 51048002327913025469 07 11 67 3200105
   131I=ND            137CS=9.0E00      K=1.69E00          89SR=6
   90SR=2.4

DUCKWATER NEVADA HALSTEAD RANCH      AM 51048002327913025773 08 24 67 1900105
   131I=ND            137CS=13.E00      K=1.66E00          89SR=3
   90SR=1.3

DUCKWATER NEVADA HALSTEAD RANCH      AM 51048002327913025922 09 19 67 1900105
   131I=ND            137CS=1.0E01      K=1.56E00          89SR=0
   90SR=2.4

DUCKWATER NEVADA HALSTEAD RANCH      AM 51048002327913034868 10 10 67 4230105
   131I=ND            137CS=11E00       K=1.32E00          89SR=5
   90SR=1.7

DUCKWATER NEVADA HALSTEAD RANCH      PM 51048002327913037549 11 07 67 4210105
   131I=ND            137CS=ND          K=1.36E00          89SR=0
   90SR=3.5

ELKO NEVADA ANCHOR S RANCH           AM 51054400727913025777 08 27 67 7300194
   131I=ND            137CS=ND          K=1.76E00          89SR=2
   90SR=2.2

ELKO NEVADA ANCHOR S RANCH           AM 51054400727913025917 09 22 67 6200194
   131I=ND            137CS=ND          K=1.71E00          89SR=2
   90SR=1.4

ELKO NEVADA ANCHOR S RANCH           AM 51054400727913034883 10 16 67 8230194
   131I=ND            137CS=13E00       K=1.77E00          89SR=2
   90SR=2.7

NOTE--MILK,WATER,RADON UNITS ARE PCI/L,EXCEPT K=GM/L,
      FOOD AND FEED UNITS ARE PCI/KGM,EXCEPT K=GM/KGM,
      SURVEILLANCE AIR RESULTS ARE PCI/M3,
      SOIL RESULTS ARE PCI/GM,
      LT(X) DENOTES A RESULT LESS THAN X.
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NEVADA MILK - JULY 1967-DEC 1967                                    COLLECTED

ELKO NEVADA ANCHOR S RANCH             AM 5105440072791303756l 11 08 67 8290194
   131I=ND           137CS=ND             K=1.66E00            89SR=0
   90SR=5.6

EUREKA NEVADA SEGURA RANCH             PM 5105860112791302547 2 07 12 67 8690003
   131I=ND           137CS=1.8E01         K=1.44E00            89SR=4
   90SR=2.5

EUREKA NEVADA MARTIN RANCH             AM 51058601127913025640 08 09 67 4710079
   131I=ND           137CS=ND             K=2.0E00             89SR=1
   90SR=6.2

EUREKA NEVADA MARTIN RANCH             AM 51058601127913034914 10 16 67 4710079
   131I=ND           137CS=ND             K=1.74E00            89SR=0
   90SR=7.3

EUREKA NEVADA MARTIN RANCH             AM 51058601127913037801 11 26 67 6390079
   131I=ND           137CS=ND             K=1.77E00            89SR=1
   90SR=6.6

HIKO NEVADA SCHOFIELD DAIRY            AM 51083401727912025511 07 13 67 3410057
   131I=ND           137CS=ND             K=1.73E00            89SR=0
   90SR=4.4

HIKO NEVADA SCHOFIELD DAIRY            PM 51083401727912025548 08 03 67 3410057
   131I=ND           137CS=ND             K=1.45E00            89SR=1
   90SR=1.5

HIKO NEVADA SCHOFIELD DAIRY            AM 52083401727912025679 09 01 67 3402057
   131I=ND           137CS=ND             K=1.35E00            89SR=2
   90SR=0.8

NOTE--MILK,WATER,RADON UNITS ARE PCI/L,EXCEPT K=GM/L,
      FOOD AND FEED UNITS ARE PCI/KGM,EXCEPT K=GM/KGM,
      SURVEILLANCE AIR RESULTS ARE PCI/M3,
      SOIL RESULTS ARE PCI/GM,
      LT(X) DENOTES A RESULT LESS THAN X.
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NEVADA MILK - JULY 1967-DEC 1967                                  COLLECTED

HIKO NEVADA SCHOFIELD DAIRY          AM 5108340172791202578209 07 67 3410057
   131I=ND           137CS=ND           K=1.47E00          89SR=2
   90SR=0.8

HIKO NEVADA SCHOFIELD DAIRY          PM 5108340172791203443310 03 67 3410057
   131I=ND           137CS=ND           K=1.59E00          89SR=0
   90SR=2.4

HIKO NEVADA SCHOFIELD DAIRY          AM 5108340172791203732211 01 67 1430057
   131I=ND           137CS=ND           K=1.47E00          89SR=0
   90SR=2.7

HIKO NEVADA SCHOFIELD DAIRY          AM 5108340172791203782411 29 67 1430057
   131I=ND           137CS=ND           K=1.46E00          89SR=0
   90SR=2.1

LAS VEGAS NEVADA LDS FARM            AM 5312070032791203948712 20 67     129
   131I=ND           133I=ND            137CS=ND          K=1.73E00
   ND                CHEM

LAS VEGAS NEVADA ANDERSON DAIRY         5112070032791102544807 10 67 0000302
   131I=ND           137CS=ND           K=1.56E00          89SR=0
   90SR=2.6

LAS VEGAS NEVADA ANDERSON DAIRY         5112070032791102554308 02 67 0000302
   131I=ND           137CS=ND           K=1.60E00          89SR=0
   90SR=2.7

LAS VEGAS NEVADA ANDERSON DAIRY      AM 5112070032791102583009 13 67 0000302
   131I=ND           137CS=ND           K=1.65E00          89SR=0
   90SR=2.3

NOTE--MILK,WATER,RADON UNITS ARE PCI/L,EXCEPT K=GM/L,
      FOOD AND FEED UNITS ARE PCI/KGM,EXCEPT K=GM/KGM,
      SURVEILLANCE AIR RESULTS ARE PCI/M3,
      SOIL RESULTS ARE PCI/GM,
      LT(X) DENOTES A RESULT LESS THAN X.
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NEVADA MILK - JULY 1967-DEC 1967                              COLLECTED

LAS VEGAS NEVADA ANDERSON DAIRY        AM 5112070032791103447S 10 06 67 0000302
   131I=ND             137CS=ND           K=1.36E00           89SR=0
   90SR=4.0

LAS VEGAS NEVADA ANDERSON DAIRY        PM 5112070032791103735S 11 02 67 0000302
   131I=ND             137CS=ND           K=1.47E00           89SR=0
   90SR=4.0

LAS VEGAS NEVADA ARDEN DAIRY              5112070032791102S449 07 10 67 0000303
   131I=ND             137CS=ND           K=1.48E00           89SR=0
   90SR=2.9

LAS VEGAS NEVADA ARDEN DAIRY              5112070032791102SS45 08 02 67 0000303
   131I=ND             137CS=ND           K=1.52E00           89SR=1
   90SR=0.8

LAS VEGAS NEVADA ARDEN DAIRY           AM 5112070032791102S831 09 13 67 0000303
   131I=ND             137CS=ND           K=1.74E00           89SR=0
   90SR=2.0

LAS VEGAS NEVADA ARDEN DAIRY           AM 51120700327911034471 10 06 67 0000303
   131I=ND             137CS=ND           K=1.41E00           89SR=0
   90SR=3.6

LAS VEGAS NEVADA ARDEN DAIRY           PM 51120700327911037352 11 02 67 0000303
   131I=ND             137CS=ND           K=1.53E00           89SR=0
   90SR=3.1

LATHROP WELLS NEVADA DANSBY RANCH      AM 5112090232791302S410 07 06 67 4330065
   131I=ND             137CS=ND           K=1.45E00           89SR=3
   90SR=0.4

NOTE--MILK,WATER,RADON UNITS ARE PCI/L,EXCEPT K=GM/L,
      FOOD AND FEED UNITS ARE PCI/KGM,EXCEPT K=GM/KGM,
      SURVEILLANCE AIR RESULTS ARE PCI/M3,
      SOIL RESULTS ARE PCI/GM,
      LT(X) DENOTES A RESULT LESS THAN X.
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NEVADA MILK - JULY 1967-DEC 1967                                  COLLECTED

LATHROP WELLS NEVADA DANSBY RANCH     AM 51120902327913025611 08 08 67 4330065
    131I=ND             137CS=ND          K=1.50E00          89SR=0
    90SR=1.7

LATHROP WELLS NEVADA DANSBY RANCH     PM 51120902327913025807 09 10 67 4330065
    131I=ND             137CS=1.8E01      K=1.51E00          89SR=1
    90SR=1.1

LATHROP WELLS NEVADA DANSBY RANCH     AM 51120902327913034411 10 04 67 4330065
    131I=ND             137CS=ND          K=1.57E00          89SR=0
    90SR=2.5

LATHROP WELLS NEVADA DANSBY RANCH     PM 51120902327913037408 11 01 67 8390065
    131I=ND             137CS=ND          K=1.45E00          89SR=0
    90SR=2.6

LATHROP WELLS NEVADA DANSBY RANCH     AM 51120902327913037946 12 11 67 8390065
    131I=ND             137CS=ND          K=0.4E00           89SR=10
    90SR=4.9

LATHROP WELLS NEVADA DANSBY RANCH     PM 53120902327913039109 12 15 67 4392065
    131I=ND             133I=ND           137CS=4.7E01      K=1.53E00
    89SR=0              90SR=1.0

LATHROP WELLS NEVADA DANSBY RANCH     AM 53120902327913039107 12 16 67 4392065
    131I=9.0E01         133I=3.9E02       137CS=3.6E01      K=1.57E00
    89SR=1              90SR=2.1

LATHROP WELLS NEVADA DANSBY RANCH     AM 53120902327913039200 12 17 67 1932065
    131I=5.7EO1         133I=1.5E02       137CS=ND          K=1.14E00
    89SR=3              90SR=0.7

NOTE--MILK,WATER,RADON UNITS ARE PCI/L,EXCEPT K=GM/L,
      FOOD AND FEED UNITS ARE PCI/KGM,EXCEPT K=GM/KGM,
      SURVEILLANCE AIR RESULTS ARE PCI/M3,
      SOIL RESULTS ARE PCI/GM,
      LT(X) DENOTES A RESULT LESS THAN X.
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NEVADA MILK - JULY 1967-DEC 1967                                   COLLECTED

LATHROP WELLS NEVADA DANSBY RANCH     PM 5312090232791303929O 12 18 67 1932065
   131I=7.0E01          133I=3.0E01      137CS=4.0E01        K=1.64E00
   89SR=6               90SR=0.0

LATHROP WELLS NEVADA DANSBY RANCH     PM 53120902327913039375 12 19 67 1932065
   131I=3.0E01          133I=ND          137CS=1.7E01        K=1.46E00
   89SR=0               90SR=2.2

LATHROP WELLS NEVADA DANSBY RANCH     AM 53120902327913039495 12 20 67 1932065
   131I=2.0E01          133I=ND          137CS=ND            K=1.47E00
   NO                   CHEM

LATHROP WELLS NEVADA DANSBY RANCH     AM 53120902327913039618 12 21 67 1932065
   131I=1.0E01          133I=ND          137CS=ND            K=1.59E00
   89SR=0               90SR=4.2

LATHROP WELLS NEVADA DANSBY RANCH     AM 53120902327913039703 12 24 67 1932065
   131I=ND              133I=ND          137CS=ND            K=1.51E00
   NO                   CHEM

LATHROP WELLS NEVADA DANSBY RANCH     AM 53120902327913039707 12 26 67 1932065
   131I=ND              133I=ND          137CS=ND            K=1.17E00
   NO                   CHEM

LATHROP WELLS NEVADA SELBACH RANCH    PM 51120902327913025429 07 05 67 1330067
   131I=ND              137CS=ND         K=1.58E00           89SR=1
   90SR=3.8

LATHROP WELLS NEVADA SELBACH RANCH    AM 51120902327913025622 08 08 67 4330067
   131I=ND              137CS=ND         K=1.61E00           89SR=2
   90SR=0.1

NOTE--MILK,WATER,RADON UNITS ARE PCI/L,EXCEPT K=GM/L,
      FOOD AND FEED UNITS ARE PCI/KGM,EXCEPT K=GM/KGM,
      SURVEILLANCE AIR RESULTS ARE PCI/M3,
      SOIL RESULTS ARE PCI/GM,
      LT(X) DENOTES A RESULT LESS THAN X.
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NEVADA MILK - JULY 1967-DEC 1967                                  COLLECTED

LATHROP WELLS NEVADA SELBACH RANCH    AM 511209023279130258O9 09 11 67 4330067
   131I=ND            137CS=ND           K=1.49E00          89SR=3
   90SR=0.0

LATHROP WELLS NEVADA SELBACH RANCH    PM 5112090232791303475l 10 13 67 4330067
   131I=ND            137CS=ND           K=0.64E00          89SR=2
   90SR=0.6

LATHROP WELLS NEVADA SELBACH RANCH       51120902327913037380 11 02 67 1320067
   131I=ND            137CS=ND           K=1.64E00          89SR=0
   90SR=1.4

LATHROP WELLS NEVADA HORDS RANCH      PM 53120902327913039123 12 16 67 6992206
   131I=ND            133I=5.0E01        137CS=1.1E01       K=1.27E00
   89SR=0             90SR=1.4

LATHROP WELLS NEVADA HORDS RANCH      PM 53120902327913039201 12 17 67 6932206
   131I=2.7E01        133I=6.0E01        137CS=1.4E01       K=1.59E00
   89SR=2             90SR=0.3

LATHROP WELLS NEVADA HORDS RANCH      PM 53120902327913039289 12 18 67 1932206
   131I=8.0E01        133I=5.0E01        137CS=ND           K=1.39E00
   89SR=4             90SR=0.0

LATHROP WELLS NEVADA HORDS RANCH      PM 53120902327913039379 12 19 67 6932206
   131I=3.0E01        133I=ND            137CS=1.0E01       K=1.47E00
   89SR=1             90SR=1.4

LATHROP WELLS NEVADA HORDS RANCH      PM 53120902327913039506 12 20 67 6932206
   131I=ND            133I=ND            137CS=ND           K=1.26E00
   ND                 CHEM

NOTE--MILK,WATER,RADON UNITS ARE PCI/L,EXCEPT K=GM/L,
     FOOD AND FEED UNITS ARE PCI/KGM,EXCEPT K=GM/KGM,
     SURVEILLANCE AIR RESULTS ARE PCI/M3,
     SOIL RESULTS ARE PCI/GM,
     LT(X) DENOTES A RESULT LESS THAN X.
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NEVADA MILK - JULY 1967-DEC 1967                                            COLLECTED

LATHROP WELLS NEVADA HORDS RANCH       PM 531209023279130396O9 12 21 67 6932206
   131I=1.0E01        133I=ND             137CS=ND             K=1.16E00
   ND                 CHEM

LATHROP WELLS NEVADA HORDS RANCH       PM 53120902327913039705 12 23 67 6932206
   131I=ND            133I=ND             137CS=ND             K=1.30E00
   ND                 CHEM

LATHROP WELLS NEVADA HORDS RANCH       PM 53120902327913039701 12 25 67 6932206
   131I=ND            133I=ND             137CS=ND             K=1.42E00
   ND                 CHEM

LATHROP WELLS NEVADA TOM NICKELL RANCHPM 53120902327913039050 12 15 67 6462207
   131I=ND            137CS=ND            K=1.77E00            89SR=1
   90SR=1.1

LATHROP WELLS NEVADA TOM NICKELL RANCHAM 53120902327913039203 12 17 67 1932207
   131I=4.0E01        133I=8.0E01         137CS=ND             K=1.57E00
   89SR=2             90SR=0.1

LATHROP WELLS NEVADA TOM NICKELL RANCHPM 53120902327913039288 12 18 67 1922207
   131I=3.0E01        133I=2.0E01         137CS=ND             K=1.66E00
   89SR=3             90SR=0.0

LATHROP WELLS NEVADA TOM NICKELL RANCHAM 53120902327913039372 12 19 67 1922207
   131I=ND            133I=ND             137CS=ND             K=1.69E00
   89SR=2             90SR=0.4

LATHROP WELLS NEVADA TOM NICKELL RANCHAM 53120902327913039502 12 20 67 1922207
   131I=ND            133I=ND             137CS=ND             K=1.57E00
   89SR=2             90SR=0.5

NOTE--MILK,WATER,RADON UNITS ARE PCI/L,EXCEPT K=GM/L,
      FOOD AND FEED UNITS ARE PCI/KGM,EXCEPT K=GM/KGM,
      SURVEILLANCE AIR RESULTS ARE PCI/M3,
      SOIL RESULTS ARE PCI/GM,
      LT(X) DENOTES A RESULT LESS THAN X.
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NEVADA MILK - JULY 1967-DEC 1967                                   COLLECTED

LATHROP WELLS NEVADA TOM NICKELL RANCHAM 53120902327913039616 12 21 67 1922207
   131I=ND              133I=ND              137CS=ND          K=1.67E00
   89SR=0               90SR=3.9

LATHROP WELLS NEVADA TOM NICKELL RANCHAM 53120902327913039696 12 24 67 1922207
   131I=ND              133I=ND              137CS=ND          K=1.49E00
   ND                   CHEM

LATHROP WELLS NEVADA TOM NICKELL RANCHAM 53120902327913039706 12 26 67 1922207
   131I=ND              133I=ND              137CS=ND          K=1.46E00
   ND                   CHEM

LATHROP WELLS NEVADA ROOKER RANCH     AM 53120902327913039124 12 16 67 1332342
   131I=ND              133I=5.0E01          137CS=1.1E01      K=1.27E00
   89SR=0               90SR=1.6

LATHROP WELLS NEVADA ROOKER RANCH     AM 53120902327913039202 12 17 67 1932342
   131I=4.0E01          133I=1.2E02          137CS=1.4E01      K=1.28E00
   89SR=3               90SR=0.5

LATHROP WELLS NEVADA ROOKER RANCH     PM 53120902327913039291 12 18 67 1932342
   133I=7.0E01          131I=9.0E01          137CS=2.0E01      K=1.69E00
   89SR=0               90SR=2.5

LATHROP WELLS NEVADA ROOKER RANCH     PM 53120902327913039383 12 19 67 1932342
   131I=7.0E01          133I=2.0E01          137CS=1.4E01      K=1.38E00
   89SR=0               90SR=2.9

LATHROP WELLS NEVADA ROOKER RANCH     AM 53120902327913039505 12 20 67 1932342
   131I=6.0E01          133I=ND              137CS=ND          K=1.18E00
   89SR=0               90SR=6.3

NOTE--MILK,WATER,RADON UNITS ARE PCI/L,EXCEPT K=GM/L,
      FOOD AND FEED UNITS ARE PCI/KGM,EXCEPT K=GM/KGM,
      SURVEILLANCE AIR RESULTS ARE PCI/M3,
      SOIL RESULTS ARE PCI/GM,
      LT(X) DENOTES A RESULT LESS THAN X.
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NEVADA MILK - JULY 1967-DEC 1967                                  COLLECTED

LATHROP WELLS NEVADA ROOKER RANCH     AM 5312090232791303961O 12 21 67 1932342
   131I=7.0E01          133I=ND          137CS=1.0E01        K=1.41E00
   89SR=0               90SR=2.3

LATHROP WELLS NEVADA ROOKER RANCH     AM 53120902327913039704 12 24 67 1932342
   131I=ND              133I=ND          137CS=ND            K=1.50E00
   NO                   CHEM

LATHROP WELLS NEVADA ROOKER RANCH     AM 53120902327913039702 12 26 67 1932342
   131I=ND              133I=ND          137CS=ND            K=1.28E00
   NO                   CHEM

LOGANDALE NEVADA VEGAS VALLEY DAIRY      51125200327912025457 07 11 67 0000301
   131I=ND              137CS=ND         K=1.67E00           89SR=2
   90SR=1.1

LOGANDALE NEVADA VEGAS VALLEY DAIRY      51125200327912025628 08 07 67 0000301
   131I=ND              137CS=ND         K=1.53E00           89SR=1
   90SR=0.9

LOGANDALE NEVADA VEGAS VALLEY DAIRY   AM 51125200327912025824 09 11 67 0000301
   131I=ND              137CS=ND         K=1.62E00           89SR=0
   90SR=2.1

LOGANDALE NEVADA VEGAS VALLEY DAIRY   AM 51125200327912034470 10 04 67 0000301
   131I=ND              137CS=ND         K=1.51E00           89SR=0
   90SR=2.9

LOGANDALE NEVADA VEGAS VALLEY DAIRY   PM 51125200327912037354 11 01 67 0000301
   131I=ND              137CS=ND         K=1.49E00           89SR=1
   90SR=1.9

NOTE--MILK,WATER,RADON UNITS ARE PCI/L,EXCEPT K=GM/L,
      FOOD AND FEED UNITS ARE PCI/KGM,EXCEPT K=GM/KGM,
      SURVEILLANCE AIR RESULTS ARE PCI/M3,
      SOIL RESULTS ARE PCI/GM,
      LT(X) DENOTES A RESULT LESS THAN X.
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NEVADA MILK - JULY 1967-DEC 1967                                      COLLECTED

LOGANDALE NEVADA VEGAS VALLEY DAIRY   PM 51125200327912037983 12 11 67 0000301
    131I=ND            137CS=ND            K=1.29E00           89SR=2
    90SR=0.8

LOGANDALE NEVADA VEGAS VALLEY DAIRY   AM 51125200327912039956 12 30 67 0000301
    131I=ND            137CS=ND            K=1.4E00            89SR=1
    90SR=1.6

LUND NEVADA MCKENZIE DAIRY               51128503327912030270 07 06 67 6994077
    131I=ND            137CS=2.1E01        K=1.73E00           89SR=0
    90SR=3.4

LUND NEVADA MCKENZIE DAIRY               51128503327912030396 07 18 67 6994077
    131I=ND            137CS=8.0E00        K=1.48E00           89SR=0
    90SR=4.0

LUND NEVADA MCKENZIE DAIRY               51128503327912030577 08 04 67 6994077
    131I=ND            137CS=ND            K=1.51E00           89SR=2
    90SR=2.[illegible]

LUND NEVADA MCKENZIE DAIRY               51128503327912030868 08 20 67 6994077
    131I=ND            137CS=ND            K=1.71E00           89SR=0
    90SR=2.8

LUND NEVADA MCKENZIE DAIRY            AM 52128503327912025749 09 01 67 6902077
    131I=ND            137CS=ND            K=1.60E00           89SR=2
    90SR=1.2

LUND NEVADA MCKENZIE DAIRY               51128503327912032516 09 13 67 6994077
    131I=ND            137CS=ND            K=1.04E00           89SR=0
    90SR=2.4

NOTE--MILK,WATER,RADON UNITS ARE PCI/L,EXCEPT K=GM/L,
       FOOD AND FEED UNITS ARE PCI/KGM,EXCEPT K=GM/KGM,
       SURVEILLANCE AIR RESULTS ARE PCI/M3,
       SOIL RESULTS ARE PCI/GM,
       LT(X) DENOTES A RESULT LESS THAN X.
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NEVADA MILK - JULY 1967-DEC 1967                                        COLLECTED

LUND NEVADA MCKENZIE DAIRY                       AM 51128503327912037548 11 07 67 8994077
   131I=ND             137CS=ND                     K=1.58E00          89SR=0
   90SR=4.4

LUND NEVADA MCKENZIE DAIRY                       AM 51128503327912037800 11 27 67 3934077
   131I=ND             137CS=ND                     K=1.57E00          89SR=0
   90SR=2.3

LUND NEVADA MCKENZIE DAIRY                       PM 51128503327912039250 12 11 67 3934077
   131I=ND             137CS=ND                     K=1.4E00           89SR=0
   90SR=2.2

LUND NEVADA MCKENZIE DAIRY                       PM 51128503327912039676 12 21 67 6930077
   131I=ND             137CS=ND                     K=1.5E00           89SR=0
   90SR=3.0

MCGILL NEVADA LARSEN RANCH                       AM 51130303327913025920 09 21 67 1900030
   131I=ND             137CS=ND                     K=1.53E00          89SR=0
   90SR=2.3

MCGILL NEVADA LARSEN RANCH                       AM 51130303327913034869 10 18 67 8990030
   131I=ND             137CS=ND                     K=1.84E00          89SR=0
   90SR=3.5

MCGILL NEVADA LARSEN RANCH                       PM 51130303327913037550 11 08 67 4930030
   131I=ND             137CS=ND                     K=1.56E00          89SR=0
   90SR=3.5

MANHATTEN NEVADA LEE HIATT RANCH                 AM 51130502327913025639 08 08 67 8430018
   131I=ND             137CS=ND                     K=1.26E00          89SR=4
   90SR=3.2

NOTE--MILK,WATER,RADON UNITS ARE PCI/L,EXCEPT K=GM/L,
      FOOD AND FEED UNITS ARE PCI/KGM,EXCEPT K=GM/KGM,
      SURVEILLANCE AIR RESULTS ARE PCI/M3,
      SOIL RESULTS ARE PCI/GM,
      LT(X) DENOTES A RESULT LESS THAN X.
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APPENDIX

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NEVADA MILK - JULY 1967-DEC 1967                              COLLECTED

MANHATTEN NEVADA LEE HIATT RANCH      AM 5113050232791302590909 09 14 67 8390018
   131I=ND             137CS=ND          K=1.56E00           89SR=1
   90SR=4.7

MANHATTAN NEVADA LEE HIATT RANCH      PM 511305023279130345177 10 04 67 8430018
   131I=ND             137CS=17.E00      K=1.40E00           89SR=0
   90SR=5.9

MANHATTEN NEVADA LEE HIATT RANCH      AM 51130502327913037421 11 01 67 8390018
   131I=ND             137CS=ND          K=1.65E00           89SR=1
   90SR=5.6

MESQUITE NEVADA HUGHES BROS DAIRY     AM 51131600327912025455 07 11 67 6490062
   131I=ND             137CS=1.6E01      K=1.59E00           89SR=2
   90SR=1.6

MESQUITE NEVADA HUGHES BROS DAIRY     PM 51131600327912025631 08 08 67 1340062
   131I=ND             137CS=ND          K=1.52E00           89SR=0
   90SR=1.1

MESQUITE NEVADA HUGHES BROS DAIRY     PM 51131600327912025823 09 11 67 1340062
   131I=ND             137CS=ND          K=1.95E00           89SR=1
   90SR=2.7

MESQUITE NEVADA HUGHES BROS DAIRY     AM 51131600327912034466 10 05 67 1340062
   131I=ND             137CS=ND          K=1.46E00           89SR=0
   90SR=3.6

MESQUITE NEVADA HUGHES BROS DAIRY     PM 51131600327912037353 11 02 67 9380062
   131I=ND             137CS=1.5E01      K=1.48E00           89SR=0
   90SR=3.0

NOTE--MILK,WATER,RADON UNITS ARE PCI/L,EXCEPT K=GM/L,
      FOOD AND FEED UNITS ARE PCI/KGM,EXCEPT K=GM/KGM,
      SURVEILLANCE AIR RESULTS ARE PCI/M3,
      SOIL RESULTS ARE PCI/GM,
      LT(X) DENOTES A RESULT LESS THAN X.
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NEVADA MILK - JULY 1967-DEC 1967                                   COLLECTED

MESQUITE NEVADA HUGHES BROS             PM 51131600327912037979 12 12 67 9380062
   131I=ND              137CS=ND           K=1.69E00           89SR=2
   90SR=1.2

MOAPA NEVADA SEARLES DAIRY              PM 51135000327912025783 09 07 67 9470071
   131I=ND              137CS=ND           K=1.59E00           89SR=0
   90SR=2.4

MOAPA NEVADA SEARLES DAIRY              AM 51133700327912037328 11 01 67 6470071
   131I=ND              137CS=1.7E01       K=1.58E00           89SR=0
   90SR=3.7

MOAPA NEVADA SEARLES DAIRY                 51135000327912025516 07 12 67 9490071
   131I=ND              137CS=1.4E01       K=1.52E00           89SR=0
   90SR=3.0

MOAPA NEVADA SEARLES DAIRY              PM 51135000327912025547 08 02 67 9470071
   131I=ND              137CS=9.0E00       K=1.67E00           89SR=1
   90SR=2.2

MOAPA NEVADA SEARLES DAIRY              AM 51135000327912034430 10 03 67 9470071
   131I=ND              137CS=11E00        K=1.39E00           89SR=0
   90SR=5.0

MOAPA NEVADA SEARLES DAIRY              AM 51135000327912037823 11 30 67 6470071
   131I=ND              137CS=1.0E01       K=1.43E00           89SR=2
   90SR=1.0

MONTELLO NEVADA GAMBLE RANCH            PM 51135500727913025914 09 19 67 0000028
   131I=ND              137CS=ND           K=1.17E00           89SR=0
   90SR=4.3

NOTE--MILK,WATER,RADON UNITS ARE PCI/L,EXCEPT K=GM/L,
      FOOD AND FEED UNITS ARE PCI/KGM,EXCEPT K=GM/KGM,
      SURVEILLANCE AIR RESULTS ARE PCI/M3,
      SOIL RESULTS ARE PCI/GM,
      LT(X) DENOTES A RESULT LESS THAN X.
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NEVADA MILK - JULY 1967-DEC 1967                                     COLLECTED

MONTELLO NEVADA GAMBLE RANCH          PM 511355007279130375 98 11 08 67 4310028
   131I=ND            137CS=ND           K=1.43E00         89SR=0
   90SR=2.6

MONTELLO NEVADA GAMBLE RANCH          PM 5113550072791303947 2 12 12 67 4310028
   131I=ND            137CS=ND           K=1.43E00         89SR=0
   90SR=3.6

NYALA NEVADA SHARPS RANCH             AM 5114900232791302547 4 07 12 67 4310054
   131I=ND            137CS=1.4E01       K=1.46E00         89SR=0
   90SR=8.6

NYALA NEVADA SHARPS RANCH             AM 5114900232791302565 3 08 09 67 6490054
   131I=ND            137CS=ND           K=1.45E00         89SR=0
   90SR=5.6

NYALA NEVADA SHARPS RANCH             AM 5114900232791302566 8 08 24 67 6360054
   131I=ND            137CS=ND           K=1.30E00         89SR=0
   90SR=5.8

NYALA NEVADA SHARPS RANCH             AM 5214900232791302568 7 09 01 67 4702054
   131I=ND            137CS=ND           K=1.46E00         89SR=1
   90SR=5.5

NYALA NEVADA SHARPS RANCH             AM 5114900232791302591 2 09 21 67 4300054
   131I=ND            137CS=1.1E01       K=1.52E00         89SR=4
   90SR=3.8

NYALA NEVADA SHARPS RANCH             PM 5114900232791303493 9 10 18 67 2230054
   131I=ND            137CS=25.0E00      K=1.86E00         89SR=0
   90SR=5.6

NOTE--MILK,WATER,RADON UNITS ARE PCI/L,EXCEPT K=GM/L,
      FOOD AND FEED UNITS ARE PCI/KGM,EXCEPT K=GM/KGM,
      SURVEILLANCE AIR RESULTS ARE PCI/M3,
      SOIL RESULTS ARE PCI/GM,
      LT(X) DENOTES A RESULT LESS THAN X.
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NEVADA MILK - JULY 1967-DEC 1967                                    COLLECTED

NYALA NEVADA SHARPS RANCH                   AM 51149002327913037675 11 15 67 1310054
   131I=ND              137CS=3.8E01           K=1.74E00           89SR=0
   90SR=7.1

NYALA NEVADA SHARPS RANCH                   AM 51149002327913039761 12 29 67 6390054
   131I=ND              137CS=3.0E01           K=1.6E00            89SR=5
   90SR=5.6

NYALA NEVADA CASEYS RANCH                   AM 51149002327913025524 07 20 67 8770071
   131I=ND              137CS=1.8E01           K=1.41E00           89SR=0
   90SR=7.6

NYALA NEVADA CASEYS RANCH                   AM 51149002327913025669 08 24 67 7710071
   131I=ND              137CS=1.1E01           K=1.73E00           89SR=6
   90SR=0.4

NYALA NEVADA CASEYS RANCH                   AM 51149002327913034937 10 18 67 4330071
   131I=ND              137CS=ND               K=1.41E00           89SR=1
   90SR=6.5

PAHRUMP NEVADA BOWMAN RANCH                 AM 51160202327913025430 07 07 67 4330169
   131I=ND              137CS=ND               K=1.12E00           89SR=0
   90SR=2.2

PAHRUMP NEVADA BOWMAN RANCH                 AM 51160202327913025662 08 10 67 4330169
   131I=ND              137CS=ND               K=1.55E00           89SR=0
   90SR=1.5

PAHRUMP NEVADA BOWMAN RANCH                 AM 51160202327913025821 09 12 67 9360169
   131I=ND              137CS=ND               K=1.23E00           89SR=0
   90SR=1.1

NOTE--MILK,WATER,RADON UNITS ARE PCI/L,EXCEPT K=GM/L,
      FOOD AND FEED UNITS ARE PCI/KGM,EXCEPT K=GM/KGM,
      SURVEILLANCE AIR RESULTS ARE PCI/M3,
      SOIL RESULTS ARE PCI/GM,
      LT(X) DENOTES A RESULT LESS THAN X.
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NEVADA MILK - JULY 1967-DEC 1967                                 COLLECTED

PAHRUMP NEVADA BOWMAN RANCH          AM 511602023279130344l4 10 04 67 4330169
   131I=ND             137CS=ND         K=1.11E00          89SR=3
   90SR=0.0

PAHRUMP NEVADA BOWMAN RANCH          PM 51160202327913037401 11 02 67 1310169
   131I=ND             137CS=ND         K=1.21E00          89SR=0
   90SR=1.3

PAHRUMP NEVADA BOWMAN RANCH          AM 51160202327913039253 12 11 67 2330169
   131I=ND             137CS=ND         K=1.1E00           89SR=3
   90SR=0.0

SHOSHONE NEVADA KIRKEBY RANCH           51192500327913030474 07 26 67     003
   131I=ND             137CS=1.6E01     K=1.63E00          89SR=3
   90SR=7.5

SHOSHONE NEVADA KIRKEBY RANCH        AM 51192500327913025915 09 24 67 0000003
   131I=ND             137CS=ND         K=1.41E00          89SR=0
   90SR=5.3

SHOSHONE NEVADA KIRKEBY RANCH        AM 51192500327913037658 11 12 67 4910003
   131I=ND             137CS=ND         K=1.53E00          89SR=0
   90SR=5.3

SPRINGDALE NEVADA PEACOCK RANCH      AM 51196402327913025663 08 14 67 0300174
   131I=ND             137CS=10         K=1.31E00          89SR=0
   90SR=2.1

SPRINGDALE NEVADA PEACOCK RANCH      AM 52196402327913025745 09 01 67 2702174
   131I=ND             137CS=9.0E00     K=1.50E00          89SR=2
   90SR=1.4

NOTE--MILK,WATER,RADON UNITS ARE PCI/L,EXCEPT K=GM/L,
      FOOD AND FEED UNITS ARE PCI/KGM,EXCEPT K=GM/KGM,
      SURVEILLANCE AIR RESULTS ARE PCI/M3,
      SOIL RESULTS ARE PCI/GM,
      LT(X) DENOTES A RESULT LESS THAN X.
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NEVADA MILK - JULY 1967--DEC 1967                                       COLLECTED

SPRINGDALE NEVADA PEACOCK RANCH      AM 51196402327913025801 09 12 67 4120174
   131I=ND            137CS=2.5E01      K=1.64E00          89SR=4
   90SR=0.0

SRRINGDALE NEVADA PEACOCK RANCH      AM 51196402327913034408 10 04 67 4130174
   131I=ND            137CS=26E00       K=1.21E00          89SR=2
   90SR=2.3

SPRINGDALE NEVADA PEACOCK RANCH      PM 51196402327913037410 11 01 67 4120174
   131I=ND            137CS=5.4E01      K=1.50E00          89SR=1
   90SR=3.9

SPRINGDALE NEVADA PEACOCK RANCH      AM 51196402327913037943 12 11 67 8770174
   131I=ND            137CS=1.0E01      K=1.36E00          89SR=3
   90SR=1.5

TONOPAH NEVADA PUMPING STATION RANCH  AM 51205502327913025466 07 13 67 8390003
   131I=ND            137CS=8.0E00      K=1.58E00          89SR=0
   90SR=2.5

TONOPAH NEVADA PUMPING STATION RANCH  AM 51205502327913025634 08 10 67 4310003
   131I=ND            137CS=ND          K=1.61E00          89SR=0
   90SR=4.1

TONOPAH NEVADA PUMPING STATION RANCH  AM 52205502327913025680 09 01 67 4902003
   131I=ND            137CS=4.0E00      K=1.36E00          89SR=1
   90SR=2.0

TONOPAH NEVADA PUMPING STATION RANCH  AM 51205502327913025911 09 15 67 8390003
   131I=ND            137CS=1.1E01      K=1.70E00          89SR=0
   90SR=2.8

NOTE--MILK,WATER,RADON UNITS ARE PCI/L,EXCEPT K=GM/L,
      FOOD AND FEED UNITS ARE PCI/KGM,EXCEPT K=GM/KGM,
      SURVEILLANCE AIR RESULTS ARE PCI/M3,
      SOIL RESULTS ARE PCI/GM,
      LT(X) DENOTES A RESULT LESS THAN X.
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NEVADA MILK - JULY 1967-DEC 1967                                 COLLECTED

TONOPAH NEVADA PUMPING STATION RANCH  AM 51205502327913034518 10 05 67 8390003
   131I=ND              137CS=ND              K=1.36E00            89SR=1
   90SR=3.4

WARM SPRINGS NEVADA TWIN SPRINGS RANCHAM 51230602327913037803 11 28 67 6790051
   131I=ND              137CS=9.E00           K=1.55E00            89SR=1
   90SR=4.0

WARM SPRINGS NEVADA TWIN SPRINGS RANCHAM 51230602327913039762 12 29 67 6390051
   131I=ND              137CS=3.3E01          K=1.7E00             89SR=2
   90SR=2.5

WELLS NEVADA WILLOW CREEK RANCH       PM 51231600727913025779 08 29 67 7900121
   131I=ND              137CS=11.E00          K=1.66E00            89SR=1
   90SR=7.2

WELLS NEVADA WILLOW CREEK RANCH       AM 51231600727913034880 10 18 67 6790121
   131I=ND              137CS=ND              K=1.42E00            89SR=0
   90SR=4.0

WELLS NEVADA WILLOW CREEK RANCH       PM 51231600727913037558 11 06 67 6790121
   131I=ND              137CS=ND              K=1.36E00            89SR=2
   90SR=2.6

NOTE--MILK,WATER,RADON UNITS ARE PCI/L,EXCEPT K=GM/L.
      FOOD AND FEED UNITS ARE PCI/KGM,EXCEPT K=GM/KGM.
      SURVEILLANCE AIR RESULTS ARE PCI/M3.
      SOIL RESULTS ARE PCI/GM.
      LT(X) DENOTES A RESULT LESS THAN X.
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NEW MEXICO MILK - JULY 1967-DEC 1967                           COLLECTED

ABIQUIU NEW MEXICO MONASTERY         PM 54000503930713037066 10 23 67 4232211
   131I=ND            137CS=ND          K=1.68E00          ND
   CHEM

ABIQUIU NEW MEXICO MONASTERY         AM 54001403930713025856 09 04 67 6792211
   131I=ND            137CS=ND          K=2.00E00          89SR=0
   90SR=2.9

ALBUQUERQUE NEW MEXICO MCILHANEYS    AM 54002000130712025576 07 31 67 6302004
   131I=ND            137CS=ND          K=1.44E00          ND
   CHEM

ALBUQUERQUE NEW MEXICO MCILHANEYS       54002000130712025861 09 05 67 6392004
   131I=ND            137CS=ND          K=1.81E00          89SR=1
   90SR=4.1

ALBUQUERQUE NEW MEXICO MCILHANEYS    AM 54002000130712037064 10 24 67 8372004
   131I=ND            137CS=ND          K=1.40E00          ND
   CHEM

ALBUQUERQUE NEW MEXICO MCILHANEYS    PM 54002000130712039595 12 13 67 6372004
   131I=ND            137CS=ND          K=1.6E00           89SR=0
   90SR=5.0

BELEN NEW MEXICO JARELES RANCH       PM 54005006130712025597 07 31 67 6302004
   131I=ND            137CS=ND          K=1.61E00          89SR=0
   90SR=3.8

BELEN NEW MEXICO JARELES RANCH       AM 54005006130712025840 09 05 67 5332004
   131I=ND            137CS=ND          K=1.51E00          89SR=2
   90SR=1.8

NOTE--MILK,WATER,RADON UNITS ARE PCI/L,EXCEPT K=GM/L,
      FOOD AND FEED UNITS ARE PCI/KGM,EXCEPT K=GM/KGM,
      SURVEILLANCE AIR RESULTS ARE PCI/M3,
      SOIL RESULTS ARE PCI/GM,
      LT(X) DENOTES A RESULT LESS THAN X.
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NEW MEXICO MILK - JULY 1967-DEC 1967                           COLLECTED

BELEN NEW MEXICO JARBLES RANCH             5400500613071203706l 10 24 67 8392004
   131I=ND             137CS=ND            K=1.30E00          ND
   CHEM

BELEN NEW MEXICO GOODSONS DAIRY         PM 5400500613071203959 2 12 13 67 6372004
   131I=ND             137CS=ND            K=1.3E00           89SR=0
   90SR=2.3

BERNALILLO NEW MEXICO MT VIEW FARM      AM 54006004330713025574 07 31 67 6302001
   131I=ND             137CS=ND            K=1.51E00          89SR=1
   90SR=3.0

BERNALILLO NEW MEXICO RIDGE DAIRY       PM 51006004330712025796 09 05 67 6392069
   131I=ND             137CS=ND            K=1.50E00          89SR=0
   90SR=3.7

BERNALILLO NEW MEXICO RIDGE DAIRY          54006004330712037065 10 24 67 6372069
   131I=ND             137CS=ND            K=1.45E00          ND
   CHEM

BERNALILLO NEW MEXICO RIDGE DAIRY       AM 54006004330712039594 12 13 67 6372069
   131I=ND             137CS=ND            K=1.49E00          89SR=1
   90SR=2.6

BERNALILLO NEW MEXICO MT VIEW FARM      AM 54006004330713025839 09 05 67 6392073
   131I=ND             137CS=ND            K=1.32E00          89SR=0
   90SR=5.4

BERNALILLO NEW MEXICO MT VIEW FARM      PM 54006004330713037128 10 24 67 9392073
   131I=ND             137CS=ND            K=1.58E00          ND
   CHEM

NOTE--MILK,WATER,RADON UNITS ARE PCI/L,EXCEPT K=GM/L,
      FOOD AND FEED UNITS ARE PCI/KGM,EXCEPT K=GM/KGM,
      SURVEILLANCE AIR RESULTS ARE PCI/M3,
      SOIL RESULTS ARE PCI/GM,
      LT(X) DENOTES A RESULT LESS THAN X.
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NEW MEXICO MILK - JULY 1967-DEC 1967                             COLLECTED

BERNALILLO NEW MEXICO MT VIEW FARM    PM 54006004330713039597 12 13 67 8362073
   131I=ND           137CS=ND            K=1.3E00            89SR=0
   90SR=3.7

BLANCO NEW MEXICO PETTUS RANCH        AM 54006504530713025602 07 31 67 2602451
   131I=ND           137CS=ND            K=1.46E00           89SR=3
   90SR=2.8

CHAMA NEW MEXICO LOBO LODGE           AM 51007503930713025659 08 07 67 2712006
   131I=ND           137CS=ND            K=1.44E00           89SR=1
   90SR=9.0

CHAMA NEW MEXICO BLACK RANCH          AM 54007503930713025859 09 06 67 7902144
   131I=ND           137CS=2.6E01        K=1.49E00           89SR=3
   90SR=18.4

CHAMA NEW MEXICO BLACK RANCH          AM 54007503930713037129 10 23 67 8292144
   131I=ND           137CS=3.4E01        K=1.34E00           ND
   CHEM

COYOTE NEW MEXICO CHALON RANCH        AM 54009503930713025561 08 01 67 7302001
   131I=ND           137CS=ND            K=1.61E00           89SR=0
   90SR=13.6

COYOTE NEW MEXICO DIEGO DE CHACON RAN AM 54009503930713025844 09 05 67 4332226
   131I=ND           137CS=ND            K=1.35E00           89SR=2
   90SR=10.7

DULCE NEW MEXICO ERLE PETTINGILL RANCHAM 54010503930713025567 08 01 67 2402319
   131I=ND           137CS=ND            K=1.70E00           89SR=0
   90SR=8.5

NOTE--MILK,WATER,RADON UNITS ARE PCI/L,EXCEPT K=GM/L,
      FOOD AND FEED UNITS ARE PCI/KGM,EXCEPT K=GM/KGM,
      SURVEILLANCE AIR RESULTS ARE PCI/M3,
      SOIL RESULTS ARE PCI/GM,
      LT(X) DENOTES A RESULT LESS THAN X.
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NEW MEXICO MILK - JULY 1967-DEC 1967                           COLLECTED

DULCE NEW MEXICO ERLE PETTINGILL RANCHAM 5401050393071302585l 09 05 67 1432319
   131I=ND              137CS=ND             K=1.71E00             89SR=5
   90SR=9.1

DULCE NEW MEXICO ERLE PETTINGILL RANCH   540104039307130371 27 10 23 67 6492319
   131I=ND              137CS=ND             K=1.76E00             NO
   CHEM

ESPANOLA NEW MEXICO RANCHO LOS LAGUNASAM 5401090393071202559l 07 31 67 6302004
   131I=ND              137CS=ND             K=1.55E00             89SR=0
   90SR=3.2

ESPANOLA NEW MEXICO RIO LAS LAGUNAS   AM 54010903930712037068 10 23 67 8382007
   131I=ND              137CS=ND             K=1.47E00             NO
   CHEM

FARMINGTON NEW MEXICO CREAMLAND DAIRY AM 54012004530712025598 07 31 67 0002101
   131I=ND              137CS=ND             K=1.51E00             89SR=1
   90SR=4.6

FARMINGTON NEW MEXICO CREAMLAND DAIRY PM 54012004530712037037 10 24 67 0002101
   131I=ND              137CS=ND             K=1.55E00             NO
   CHEM

LOS LUNAS NEW MEXICO JONES DAIRY      PM 54021506130712025587 07 31 67 6302003
   131I=ND              137CS=ND             K=1.52E00

LOS LUNAS NEW MEXICO JONES DAIRY      PM 54021506130712025838 09 05 67 6392003
   131I=ND              137CS=ND             K=1.40E00             89SR=5
   90SR=2.5

LOS LUNAS NEW MEXICO JONES DAIRY         54021506130712037070 10 24 67 8372003
   131I=ND              137CS=ND             K=1.38E00             NO
   CHEM

NOTE--MILK,WATER,RADON UNITS ARE PCI/L,EXCEPT K=GM/L,
      FOOD AND FEED UNITS ARE PCI/KGM,EXCEPT K=GM/KGM,
      SURVEILLANCE AIR RESULTS ARE PCI/M3,
      SOIL RESULTS ARE PCI/GM,
      LT(X) DENOTES A RESULT LESS THAN X.
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NEW MEXICO MILK - JULY 1967-DEC 1967                                    COLLECTED

LOS LUNAS NEW MEXICO JONES DAIRY       PM 540215061307120395996 12 13 67 6372003
   131I=ND              137CS=ND          K=1.2E00             89SR=0
   90SR=3.6

NAMBE NEW MEXICO RANCHO LOS LAGUNOS    PM 54023304930711039598 12 14 67 8372007
   131I=ND              137CS=ND          K=1.43E00            89SR=5
   90SR=1.7

OJO CALIENTE NEW MEXICO PASTRO VERDE RAN 54023505530713025583 07 31 67 7702001
   131I=ND              137CS=ND          K=1.54E00            89SR=1
   90SR=3.5

OJO CALIENTE NEW MEXICO C LOWERY RANCHAM 54023505530713025867 09 05 67 8392288
   131I=ND              137CS=ND          K=1.41E00            89SR=1
   90SR=4.8

REGINA NEW MEXICO RAY CARR RANCH       PM 54025504330713025571 07 30 67 5002007
   131I=ND              137CS=1.8E01      K=1.94E00            89SR=1
   90SR=5.2

REGINA NEW MEXICO RAY CARR RANCH       PM 54025504330713025843 09 04 67 6792007
   131I=ND              137CS=ND          K=1.78E00            89SR=5
   90SR=3.0

REGINA NEW MEXICO RAY CARR RANCH          54025504330713037072 10 24 67 6372007
   131I=ND              137CS=ND          K=1.47E00            ND
   CHEM

SANTA FE NEW MEXICO DE LOS LAGUNOS     AM 54027004930712025863 09 05 67 6392007
   131I=ND              137CS=ND          K=1.35E00            89SR=0
   90SR=3.0

NOTE--MILK,WATER,RADON UNITS ARE PCI/L,EXCEPT K=GM/L,
      FOOD AND FEED UNITS ARE PCI/KGM,EXCEPT K=GM/KGM,
      SURVEILLANCE AIR RESULTS ARE PCI/M3,
      SOIL RESULTS ARE PCI/GM,
      LT(X) DENOTES A RESULT LESS THAN X.
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NEW MEXICO MILK - JULY 1967-DEC 1967                              COLLECTED

TIERRA AMARILLA NEW MEXICO US POST OFF    54030203930713025593 08 01 67 2202005
   131I=ND             137CS=ND           K=1.60E00           89SR=4
   90SR=11.0

TIERRA AMARILLA NEW MEXICO MANZANARES AM 51030203930713025795 09 05 67 6292173
   131I=ND             137CS=ND           K=1.67E00           89SR=5
   90SR=7.5

TIERRA AMARILLA NEW MEXICO MANZANARES    54030403930713037058 10 23 67 2232173
   131I=ND             137CS=ND           K=1.53E00           89SR=3
   90SR=7.1

TRES PIEDRAS NEW MEXICO MAYO RANCH    AM 54030505530713025575 07 31 67 6302002
   131I=ND             137CS=ND           K=1.73E00           ND
   CHEM

TRES PIEDRAS NEW MEXICO MAYO RANCH    AM 54030505530713025870 09 05 67 9392118
   131I=ND             137CS=1.3E01       K=1.67E00           89SR=4
   90SR=6.5

TRES PIEDRAS NEW MEXICO MAYO RANCH       54030705530712037216 10 25 67 4912118
   131I=ND             137CS=ND           K=1.56E00           ND
   CHEM

NOTE--MILK,WATER,RADON UNITS ARE PCI/L,EXCEPT K=GM/L.
      FOOD AND FEED UNITS ARE PCI/KGM,EXCEPT K=GM/KGM.
      SURVEILLANCE AIR RESULTS ARE PCI/M3.
      SOIL RESULTS ARE PCI/GM.
      LT(X) DENOTES A RESULT LESS THAN X.
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OREGON MILK - JULY 1967-DEC 1967
                                                                  COLLECTED
ALBANY OREGON SNOW PEAK DAIRY          PM 56001004336912037466 11 01 67 0002364
   131I=ND            137CS=2.0E01        K=1.55E00            89SR=3
   90SR=6.1

ASTORIA OREGON MAYFLOWER FARMS         AM 56004000736912037266 10 31 67 0002361
   131I=ND            137CS=2.7E01        K=1.49E00            89SR=1
   90SR=12.5

BEND OREGON GREEN ACRES DAIRY INC      AM 56008001736912037271 10 31 67 0002370
   131I=ND            137CS=ND            K=1.50E00            89SR=1
   90SR=4.9

COOS BAY OREGON BROOKMEAD DAIRY        AM 56011001136912037365 10 29 67 0002372
   131I=ND            137CS=ND            K=1.40E00            89SR=0
   90SR=8.4

CORVALLIS OREGON OSU DAIRY PROD LAB    AM 56013000336912037242 10 30 67 0002365
   131I=ND            137CS=ND            K=1.54E00            89SR=1
   90SR=3.5

CORVALLIS OREGON SUNNYBROOK DAIRY      AM 56013000336912037240 10 29 67 0002366
   131I=ND            137CS=ND            K=1.41E00            89SR=2
   90SR=4.0

EUGENE OREGON EUGENE FARMERS CREAMERY AM 56018003936912037269 10 31 67 0002367
   131I=ND            137CS=ND            K=1.51E00            89SR=1
   90SR=3.4

EUGENE OREGON ECHO SPRINGS             AM 56018003936912037241 10 30 67 0002368
   131I=ND            137CS=2.5E01        K=1.51E00            89SR=0
   90SR=5.0

NOTE--MILK,WATER,RADON UNITS ARE PCI/L,EXCEPT K=GM/L,
      FOOD AND FEED UNITS ARE PCI/KGM,EXCEPT K=GM/KGM,
      SURVEILLANCE AIR RESULTS ARE PCI/M3,
      SOIL RESULTS ARE PCI/GM,
      LT(X) DENOTES A RESULT LESS THAN X.
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OREGON MILK - JULY 1967-DEC 1967                              COLLECTED

GRANTS PASS OREGON ARDEN FARMS CO.    PM 56022003336912037267 10 31 67 0002375
   131I=ND            137CS=ND           K=1.64E00           89SR=2
   90SR=7.1

HERMISTON OREGON MAYFLOWER FARMS      AM 56025005936912037272 10 31 67 0002379
   131I=ND            137CS=ND           K=1.44E00           89SR=1
   90SR=4.2

KLAMATH FALLS OREGON KLAMATH FALLS CR PM 56029003536912037238 10 29 67 0002377
   131I=ND            137CS=1.3E01       K=1.46E00           89SR=3
   90SR=3.0

MEDFORD OREGON JORGENSENS DAIRY       PM 56034002936912037364 11 01 67 0002376
   131I=ND            137CS=3.6E01       K=1.52E00           89SR=0
   90SR=3.5

REDMOND OREGON KILGORE DAIRY CO.      AM 56048001736912037270 10 31 67 0002369
   131I=ND            137CS=ND           K=1.42E00           89SR=1
   90SR=3.6

ROSEBURG OREGON UMPQUA DAIRY          PM 56049501936912037239 10 30 67 0002373
   131I=ND            137CS=ND           K=1.41E00           89SR=2
   90SR=3.0

SALEM OREGON CURLYS DAIRY             PM 56050005336912037268 10 31 67 0002363
   131I=ND            137CS=1.8E01       K=1.51E00           89SR=1
   90SR=5.2

NOTE--MILK,WATER,RADON UNITS ARE PCI/L,EXCEPT K=GM/L,
     FOOD AND FEED UNITS ARE PCI/KGM,EXCEPT K=GM/KGM,
     SURVEILLANCE AIR RESULTS ARE PCI/M3,
     SOIL RESULTS ARE PCI/GM,
     LT(X) DENOTES A RESULT LESS THAN X.
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UTAH MILK - JULY 1967-DEC 1967                                    COLLECTED

CEDAR CITY UTAH MEADOW GOLD DAIRY     AM 51031102143812025526 07 10 67 0002267
    131I=ND              137CS=8.0E00        K=1.52E00            89SR=0
    90SR=7.4

GARRISON UTAH GONDERS RANCH           AM 51070602743813025776 08 25 67 1900006
    131I=ND              137CS=1.3E01        K=1.68E00            89SR=3
    90SR=3.7

GARRISON UTAH GONDERS RANCH           AM 51070602743813025919 09 18 67 1900006
    131I=ND              137CS=ND            K=1.52E00            89SR=0
    90SR=4.3

GARRISON UTAH GONDERS RANCH           AM 51070602743813034862 10 11 67 4910006
    131I=ND              137CS=ND            K=1.80E00            89SR=0
    90SR=6.2

MINERSVILLE UTAH MINERSVILLE DRY ASSN AM 56133600143812025463 07 11 67 0002266
    131I=ND              137CS=9.0E00        K=1.56E00            89SR=0
    90SR=5.5

MT PLEASANT UTAH BROOKLAWN CREAMERY      56135803943812025454 07 10 67 0002264
    131I=ND              137CS=1.1E01        K=1.55E00            89SR=2
    90SR=6.4

NEW CASTLE UTAH NEW CASTLE DAIRY      AM 51141802143812025459 07 11 67 6490001
    131I=ND              137CS=8.0E00        K=1.58E00            89SR=0
    90SR=3.6

NEW CASTLE UTAH NEW CASTLE DAIRY      AM 51141802143812025629 08 08 67 6470001
    131I=ND              137CS=ND            K=1.59E00            89SR=0
    90SR=2.8

NOTE--MILK,WATER,RADON UNITS ARE PCI/L,EXCEPT K=GM/L,
      FOOD AND FEED UNITS ARE PCI/KGM,EXCEPT K=GM/KGM,
      SURVEILLANCE AIR RESULTS ARE PCI/M3,
      SOIL RESULTS ARE PCI/GM,
      LT(X) DENOTES A RESULT LESS THAN X.
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UTAH MILK - JULY 1967-DEC 1967                              COLLECTED

NEW CASTLE UTAH NEW CASTLE DAIRY      AM 51141802143812025825 09 12 67 4120001
   131I=ND             137CS=ND          K=1.30E00            89SR=1
   90SR=1.9

NEW CASTLE UTAH NEW CASTLE DAIRY      AM 51141802143812034474 10 05 67 4120001
   131I=ND             137CS=ND          K=1.45E00            89SR=1
   90SR=3.3

NEWCASTLE UTAH NEWCASTLE DAIRY        AM 51141802143812037356 11 02 67 1730001
   131I=ND             137CS=1.3E01      K=1.46E00            89SR=0
   90SR=4.0

NEW CASTLE UTAH NEW CASTLE DAIRY      PM 51141802143812037984 12 12 67 1730001
   131I=ND             137CS=ND          K=1.46E00            89SR=2
   90SR=2.0

OGDEN UTAH MAPLE LEAF DAIRY           AM 56152105743812025462 07 10 67 0002262
   131I=ND             137CS=1.3E01      K=1.41E00            89SR=3
   90SR=9.6

ST GEORGE UTAH COX DAIRY                 51190005343812030255 07 07 67 6464001
   131I=ND             137CS=ND          K=1.57E00            89SR=0
   90SR=3.9

 ST GEORGE UTAH COX DAIRY                51190005343812030355 07 14 67 6464001
   131I=ND             137CS=ND          K=1.45E00            89SR=0
   90SR=3.3

ST GEORGE UTAH COX DAIRY                 51190005343812030443 07 21 67 6464001
   131I=ND             137CS=ND          K=1.47E00            89SR=0
   90SR=4.8

NOTE--MILK,WATER,RADON UNITS ARE PCI/L,EXCEPT K=GM/L,
      FOOD AND FEED UNITS ARE PCI/KGM,EXCEPT K=GM/KGM,
      SURVEILLANCE AIR RESULTS ARE PCI/M3,
      SOIL RESULTS ARE PCI/GM,
      LT(X) DENOTE  A RESULT LESS THAN X.
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UTAH MILK - JULY 1967-DEC 1967
                                                                   COLLECTED
 ST GEORGE UTAH COX DAIRY                          51190005343812030490 07 28 67 6464001
    131I=ND              137CS=ND                  K=1.52E00           89SR=0
    90SR=4.5

 ST GEORGE UTAH COX DAIRY                       AM 51190005343812030578 08 04 67 5490001
    131I=ND              137CS=ND                  K=1.53E00           89SR=0
    90SR=4.9

 ST GEORGE UTAH COX DAIRY                          51190005343812030641 08 11 67 6464001
    131I=ND              137CS=ND                  K=1.59E00           89SR=2
    90SR=3.6

 ST GEORGE UTAH COX DAIRY                       AM 51190005343812030823 08 18 67 6464001
    131I=ND              137CS=ND                  K=1.56E00.89SR=0   90SR=5.7

 ST GEORGE UTAH COX DAIRY                       PM 51190005343812032096 08 25 67 6464001
    131I=ND              137CS=ND                  K=1.37E00           89SR=3
    90SR=2.1

 ST GEORGE UTAH COX DAIRY                          51190005343812032233 09 01 67 6464001
    131I=ND              137CS=ND                  K=1.58E00           89SR=5
    90SR=1.7

 ST GEORGE UTAH COX DAIRY                          51190005343812032392 09 08 67 6464001
    131I=ND              137CS=ND                  K=1.49E00           89SR=1
    90SR=3.5

 ST GEORGE UTAH COX DAIRY                          51190005343812032593 09 15 67 6464001
    131I=ND              137CS=ND                  K=1.48E00           89SR=2
    90SR=2.1

 ST GEORGE UTAH COX DAIRY                       AM 51190005343812025913 09 22 67 8400001
    131I=ND              137CS=ND                  K=1.49E00           89SR=0
    90SR=3.7

NOTE--MILK,WATER,RADON UNITS ARE PCI/L,EXCEPT K=GM/L,
      FOOD AND FEED UNITS ARE PCI/KGM,EXCEPT K=GM/KGM,
      SURVEILLANCE AIR RESULTS ARE PCI/M3,
      SOIL RESULTS ARE PCI/GM,
      LT(X) DENOTES A RESULT LESS THAN X.
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UTAH MILK - JULY 1967-DEC 1967                                    COLLECTED

ST GEORGE UTAH COX DAIRY                    51190005343812034268 09 29 67 6464001
   131I=ND            137CS=ND                 K=1.54E00          89SR=0
   90SR=2.6

ST GEORGE UTAH COX DAIRY                 AM 51190005343912034545 10 06 67 5490001
   131I=ND            137CS=ND                 K=1.34E00          89SR=0
   90SR=6.5

ST GEORGE UTAH COX DAIRY                 PM 51190005343812034745 10 13 67 6464001
   131I=ND            137CS=ND                 K=1.24E00          89SR=1
   90SR=4.2

ST GEORGE UTAH COX DAIRY                 AM 51190005343812034913 10 20 67 6464001
   131I=ND            137CS=ND                 K=1.40E00          89SR=2
   90SR=2.9

ST GEORGE UTAH COX DAIRY                 AM 51190005343812037135 10 27 67 6464001
   131I=ND            137CS=ND                 K=1.49E00          89SR=2
   90SR=2.9

ST GEORGE UTAH COX DAIRY                 AM 51190005343812037465 11 03 67 6490001
   131I=ND            137CS=ND                 K=1.29E00          89SR=1
   90SR=1.8

ST GEORGE UTAH COX DAIRY                 AM 51190005343812037599 11 10 67 6490001
   131I=ND            137CS=ND                 K=1.39E00          89SR=0
   90SR=4.0

ST GEORGE UTAH COX DAIRY                 AM 51190005343812037721 11 17 67 6490001
   131I=ND            137CS=1.4E01             K=1.56E00          89SR=0
   90SR=2.7

NOTE--MILK,WATER,RADON UNITS ARE PCI/L,EXCEPT K=GM/L,
      FOOD AND FEED UNITS ARE PCI/KGM,EXCEPT K=GM/KGM,
      SURVEILLANCE AIR RESULTS ARE PCI/M3,
      SOIL RESULTS ARE PCI/GM,
      LT(X) DENOTES A RESULT LESS THAN X.
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UTAH MILK - JULY 1967-DEC 1967                                   COLLECTED

ST GEORGE UTAH COX DAIRY              AM 5119000534381203778O 11 24 67 6490001
   131I=ND             137CS=ND          K=1.42E00            89SR=0
   90SR=3.5

ST GEORGE UTAH COX DAIRY              AM 51190005343812037858 12 01 67 6490001
   131I=ND             137CS=ND          K=1.5E00             89SR=1
   90SR=2.0

ST GEORGE UTAH COX DAIRY              AM 51190005343812037928 12 08 67 6490001
   131I=ND             137CS=ND          K=1.46E00            89SR=2
   90SR=1.4

ST GEORGE UTAH COX DAIRY              PM 51190005343812039236 12 15 67 6490001
   131I=ND             137CS=ND          K=1.4E00             89SR=7
   90SR=0.0

ST GEORGE UTAH COX DAIRY              AM 51190005343812039681 12 22 67 6490001
   131I=ND             137CS=1.5E01      K=1.4E00             89SR=1
   90SR=2.7

ST GEORGE UTAH COX DAIRY              PM 51190005343812039779 12 29 67 6490001
   131I=ND             137CS=ND          K=1.5E00             89SR=0
   90SR=2.2

NOTE--MILK,WATER,RADON UNITS ARE PCI/L,EXCEPT K=GM/L,
      FOOD AND FEED UNITS ARE PCI/KGM,EXCEPT K=GM/KGM,
      SURVEILLANCE AIR RESULTS ARE PCI/M3,
      SOIL RESULTS ARE PCI/GM,
      LT(X) DENOTES A RESULT LESS THAN X.
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